

VHF-UHF DIGEST

the official publication of the Worldwide TV-FM DX Association

JULY 1979

BALTIMORE

**ELEVENTH ANNUAL
WTFDA CONVENTION
AUGUST 3, 4, 5**

PRE-CONVENTION ISSUE

From The Staff :

WTFDA Headquarters, P.O. Box 202, Whiting, Indiana 46394

WTFDA DUES TO INCREASE...Effective September 1, membership dues will increase to \$13 yearly. You can renew your membership at the old \$11 rate before the above date. The overseas rate will remain at \$18. A joint membership with WTFDA will be available at \$15, and the rate for VUD column editors will be \$10. Our basic dues have been at the \$11 mark since February 15, 1975. Rising printing costs, and the prospect of yet another increase in postage rates, have made this change necessary.

NOW'S THE TIME...If you're planning to attend the 1979 WTFDA Convention in Baltimore (August 3, 4, 5), make sure that your Convention Registration Form is sent in by July 25. In case you don't have a form, which appeared in the May issue, you can contact hosts Thomas J. Yingling, Jr., 221 Pinewood Road, Baltimore, MD 21222, (301)282-5649, or Don Blevins, 1715 Marhart Road, Baltimore, MD 21221, (301)574-2714. Complete convention details appear on page 6 of this issue. See you in Baltimore!

NEW EASTERN TV DX EDITOR...TV DXers east of the Mississippi, and in Ontario, Quebec, and the Maritime provinces should now report to Robert Kramer, 3406 W. Pierce, Chicago, IL 60651. Our new RDX editor's first column is on page 30.

BEYOND SHORTWAVE...A brand new updated edition of WTFDA's great introductory publication is now available for \$1.50 from WTFDA HQ. This is a useful basic reference to DXing TV, FM, and PSB transmissions above 30 MHz. Order your copy today!

WTFDA NEWSWIRE...time and space limitations have delayed this feature column for another month. Look for its return in the August issue.

UPCOMING...In the next few months, we hope to feature much useful information on DXing foreign TV signals via F2 skip. The upcoming cycle peak promises to be a real treat for VHF DXers, and we're looking for your own ideas and approaches to catching some of this memorable DX. Let's hear from you!

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MAILBOX

John Zondlo
6617 Maryland
Hammond, IN 46323
(219) 844-8694
Deadline: 10th

New Members:

Alvin Berger
Murray Bernstein
Armand DiFilippo
Melvin Goldberg
James Gordon
Jim Korn
Paul Louks
Michael Rosen
Robert Taylor
Gary White
Roy Wilson
Donald Woods
William Zumstein

8669 Cedar St.
227 Berkeley Place
1825 S. Rosewood St.
290 Bolten Road
MRC, Box 37-B
77-A Miquel St.
10475 Tittabawassee
9256 Cloisters West
189 Inlet Ave.
Box 96
Route 1, Box 272-D
1131 Chautauqua Blvd.
c/o AID, 823 Commerce
Drive

Omaha, NE 68124
Brooklyn, NY 11217
Philadelphia, PA 19145
E. Windsor, NJ 08520
Bangor, ME 04401
San Francisco, CA 94131
Freeland, MI 48623
Richmond, VA 23229
Manahawkin, NJ 08050
Chanhassen, MN 55317
Harlem, CA 30814
Pacific Palisades, CA 90272
Oak Brook, IL 60521

Renewals:

Richard M. Allen, Arthur Amarin, Jim Brann, Tim Cronin, Robert Dally, Larry Class, John Griffiths, Dave Hascall, Jim Hopkins, George Jensen, Leonard Jozwiak, Michael Lapinski, Rolland Lindblade, Andrew Mahoney, David McBride, Fred McCormack, Terry Morris, Gordon Nelson, Guy Opden, John Pilger, Kevin Slater, William Smith, Steven Sprachman, Ralph Strobel, Martin Theil, Alphonse Tobia, Mel Wilson.

Rejoins:

Roger Bortree-28 Clengarnock House-Hollyrood Park-Liverpool, NY 13088
Les Coins-Box 3837-Shreveport, LA 71103
Paul Kalisz-2321 Powell Ave.-Bronx, NY 10462

Address Changes:

John Czarnowski-378 E. 1300 E.-Salt Lake City, UT 84102
Guy Kroger-919 3rd Ave. S.-Denison, IA 51442
Dr. Joel Rosenberg-10 Van Horn Court-Thornhill, ON L3T 5R1
John Sulak-350 Congress St.-Troy, NY 12180
David Walcutt-1521 Rutland #7-Houston, TX 77008
Wayne Wesolowski-209 Glenview-Elmhurst, IL 60126
David Wurl-Route 2, Box 5A-Stratford, WI 54484

Renewals Due in August:

Fr. R.B. Ammons, Jim Ayers, Frank Balchick, Ron Bennett, Alex Berman, Roger Besch, Walter Chmara, Roosevelt Crawford, Al Ellis, Richard C. Evans, Joe Fels, Paul Caines, Steven Grimm, David Hammer, 1Lt. Michael Hollis, Robert Kramer, Robert Langridge, Jr., Albert Lobel, J.O. Mallinson, David Nordmann, John Parillo, Paul Petosky, Robert Ross, Don Ruland, Mark Saran, Lloyd Scott, Richard Turcseny, Barry Wallner, Paul and Dave Wardell, Jim White, Craig Willard.

New member ARMAND DI FILIPPO is a 32 year old banker who's interested in FM, TV, PSB, SW, DCB and utility DX. His DX club memberships are many: RCMA, NAEWA, SPEEDX, ASWLC, NRC, NNRC, SDDXC and IRCA. He joined as the result of a mailing to NASWA members. Armand's gear includes a Luxman T110 FM tuner with an SCA adaptor and a Bearcat portable scanner.

A member of NASWA and NRC, MELVIN GOLDBERG makes a living as a court clerk. He's into SW and FM-TV DX, and uses a Panasonic RF-220 and a Bearcat 210.

Our Maine man this month is JAMES GORDON. He DXs with a Panasonic RT2000 and a KIIH stereo. James is a member of NASWA and DXs the SW and FM bands.

Wolverine state member PAUL LOUKS is a 19 year old student. He's into FM, TV and 2 meter amateur DX. Gear in his shack includes a Sansui 9090 connected to a Fincio FM-WG and a Sony WV-1510 TV. He heard about the club in Communications World magazine. He says, "I hope my membership will help me to enjoy one of my pasts to a greater extent."

MICHAEL ROSEN is a fourth year medical student. He uses an omni-directional TV/TX antenna because he lives in an apartment, and he uses a Jerrold preamp for both bands. He heard about the club while listening to skip on 27 meters.

From last year's mass mailing to NRC members we're happy to welcome GARY WHITE into the club. Gary is a computer engineer who enjoys BCB and TV fixng and uses a 12" Sony TV.

New member BOY WILSON is a radio operator for the Georgia Department of Transportation, which has eight base stations on 47.30 (for you PSB folks). He's interested in almost all of the fixng bands and belongs to IRCA, NRC and WCA. He uses a Sharp multi-band portable receiver and an RCA TV.

A high school senior, DONALD WOODS enjoys DXing the BCB, SW, LW and VHF bands. He's a member of NRC, and uses a Bearcat 250 with a Radio Shack tri-band ground plane and a Sears TV.

Tidbits.....

Leading off this month, we have information on upconverters from Roger Gunney in England via member Peter Sawatzky: "The unit is basically a small box into which your VHF aerial is fed (input coverage is 40-250 MHz) and out of the socket will come the same information but converted to a higher frequency at UHF, thus channel A2 will be tuned in via the converter and your UHF TV at around channel B31 (about A27). So whatever is received at VHF is changed in frequency only, the signal content remains the same. So there will be no problems, apart perhaps with resolving BBC on 405 lines which uses a vastly lower line speed and a + going video signal. I have one of these units here and I can resolve weak MS OK, so it's ideal for weak fringe work. The problem is that it is made for our main voltage of 240V AC. I have been in touch with a friend at South West Aerial Systems and in turn he has investigated the supply of these, but for 120V AC. He is advised by the makers that none are available other than for 200-250V AC. So if you want to use one then you will need to get a step up transformer or simpler an auto transformer. They are by UK enthusiast standards expensive. However, South West has agreed to supply on a 1 off basis only at the below retail price of 35.20 pounds (about 75 dollars-je) inclusive of postage and packing. However, if you can get other WTFDA members interested then an order of 5 will total 133.50 pounds inclusive of postage, a substantial reduction. It is important however that any money order for the equivalent sterling rate in dollars is made out to a London bank/clearing house and not to a North American bank, this to avoid delay in sending the goods and also to avoid payment of bank charges and commission. As I say, they are by our standards expensive but perhaps this is a reasonable price. 35 pounds is about half the average weekly wage in the UK! Do not send any money to me but to: South West Aerial Systems, 10 Old Boundary Road, Shaftesbury, North Dorset, England. I hope that these will be the answer to coverage below A2, etc. My experience has been they are generally quite good, although I would suggest that preamps over +20dB pain ahead of the unit are avoided." Now a few comments from Peter: "I obtained this information when I recently wrote Roger concerning the trans-Atlantic Es which he received and which John Combs of Orlando and others were trying to identify. In a note to him I mentioned some interest in an upconverter which John Combs had mentioned to me in a telephone call." On his further experiments with microprocessor fixng, he writes, "The hardware for starting on my computerized fix project is now set up and I am beginning with the development of programs. In writing my first program and not setting the expected results, I can see that this is going to be far more difficult and time-consuming than setting up the necessary hardware. Even hardware-wise, though, there is still much to be accomplished, as I still need to purchase a dedicated SV supply, develop a tape interface, and buy an A-15 tuner through which to put the IF from the vector tuner in my system."

IRCA is coming out with a new publication that should be of interest to fixers. It's the IRCA Almanac, which includes lists of network affiliates, sports networks, syndicated programs, and several articles on broadcasting history and the current state of the industry. For a copy, send \$5 to IRCA Goodie Factory, P.O. Box 17988, Seattle, WA 98107.

Many thanks to member Glenn Hauser for publicizing our EFM in his monthly magazine, Review of International Broadcasting. RIB is a must for any serious SW fixer, and is helpful to those who work other bands. For a one year subscription send \$12 to Review of International Broadcasting, c/o Glenn Hauser, University Radio WUOT, Knoxville, TN 37916.

Remember, Don Erickson is still offering a pre-publication discount on the World Radio-TV Handbook. For more info, see last month's Mailbox.

See y'all in Baltimore.....73.....jjz

EDUCATIONAL FM UPDATE

PART 2

by Mike Dorner, Jr.

Last time we looked at the tremendous overturn in the present educational FM radio band by the FCC's new laws limiting ten-watters presently in operation and forbidding any more ten-watt applications. This month we'll look at the new time requirements: all stations must operate 36 hours per week and 12 hours a day, or share time.

There has been no little confusion over this matter, due to the FCC's ambiguous bureaucratized that seemed to contradict itself. At the beginning of its rule making, the commission called for all "noncommercial educational FM stations, regardless of power, to operate at least 36 hours per week . . . and . . . a sharing of frequencies when stations are operated at least 12 hours per day." Later, the report called for a minimum of 36 hrs/week, with at least 5 hrs/daily on six days of the week. On a close call, the FCC decided not to demand stations stay on the air during school vacations, and "no additional hours will be required to compensate for vacation periods." But 15 paragraphs later, the FCC required stations that wish to avoid time-sharing arrangements to operate at least 12 hrs/day, six days of the week during the entire year or, if it observed vacations (three months maximum) it must operate enough hours during school term so that, if these were averaged out over the whole year, it would meet the time sharing test.

A month later the FCC issued a clarification: it meant to say that (1) any station operating less than 36 hrs/wk would be in trouble; (2) all stations must operate a minimum of 5 hrs/day, six days a week, but they were open to time-sharing arrangements against their will, unless they operated 12 hrs/day, six days a week, and, if they took vacations, they must operate more than 12 hrs/day, six days a week, in order to meet this demand on an averaged basis. These time requirements took effect last January 1st; this coming January 1st, would-be applicants may file for facilities in which the minima are not met.

These FCC rules, when first proposed, had evoked storms of protest. Most stations are low-budgeted, or run by volunteers. Economic factors of staff are urgent. Further, many universities require supervisory personnel and security men on duty during on-time operations--thus a major increase in expenditure, to which must be added program rentals in many cases, energy costs, etc. Some colleges have highly transient student bodies during the summer; skilled radio people are away at work or travel. High schools have similar problems and many state laws require teaching personnel on duty for any students' activities. Further, high school students are capricious and even more likely to tire and not show for work. Many saw the rule as a CPB power play to force those stations not under its control off the air through subtle economic factors.

Given the increasingly scarce frequencies, however, many as well as the commission saw the need for some minimum operational requirements. Some suggested reductions during vacations; or the gradual incrementation of hours over several years; or proportioning hours to city size, or the type of audience--citywide or campus. Others proposed the exemption of ten watters, others the same, except in city areas, or in high school cases, or to the size of the school. The FCC rejected them all, citing the involved workload in keeping tabs of all these factors. Instead, it opted for the early commercial FM minimum of 36 hrs/wk, leaving open the possibility of raising the minimum as non-commercial FM continued to grow.

(continued on page 39)

COME TO **BALTIMORE**

AUGUST 3-4-5

1979 WTFDA ANNUAL CONVENTION

The 1979 WTFDA Convention in Baltimore should prove to be a most exciting event for VHF and UHF DXers! Convention hosts Tom Yingling, Don Blavins, and Gary Mullis are planning a program that should provide something for everyone, including the PSB DX enthusiast!

As usual, there will be plenty of time for the traditional gab sessions, especially for those who arrive early. You'll have a chance to meet and talk with many of your fellow FM, TV, and PSB DXers. Here's a great opportunity to listen to DX tapes, view DX photos and slides, and have a look at many QSL collections. If you're new to the DXing hobby, it's also a good time to get advice on DX equipment and technique from veteran DXers.

The schedule of events, now being set, will include a tour of WMAR-TV (channel 2), as well as a provocative lecture on the evolution of police PSB communications, a demonstration of the Bearcat 250 programmable VHF/UHF scanner and its inter-relationship to TV and FM DXing, and more! There'll be free literature on DX equipment, and WTFDA club supplies should also be available for those who wish to purchase them.

A representative from Maryland Public Broadcasting will speak on the history and evolution of public broadcasting in the state. MPB owns and operates WMPB-67 Baltimore, WCPB-28 Salisbury, and the 5 million watt WAPB-22 at Annapolis. Also John Pilger will speak on PSB communications in medical rescue work and the new system just put into use in the metropolitan Washington area.

On Saturday evening, the traditional banquet will be held. Our hosts are planning a hot buffet, and it should be super, as our convention site is well known for superior cuisine and exceptional service, as it is owned by a famous Baltimore restaurateur.

The WTFDA club business meeting will be on Sunday morning, with an open discussion about the club. This is your chance to put forth suggestions about the operation of WTFDA. We need your input, and this is an excellent opportunity for your comments and criticisms.

While the WTFDA Convention is going on, one of Baltimore's great annual events will be in progress--the Italian Festival at the Inner Harbor, featuring Italian food of every description, and a great display of crafts from Baltimore's Italian neighborhood. It's one of America's best ethnic cultural festivals.

Our convention is being held at Meushaw's Motor Inn, Security Boulevard at Baltimore Beltway Exit 17, easily accessible from the interstates and downtown and suburban Baltimore. Meushaw's is situated on a hilltop, near the main headquarters of the United States Social Security Administration.

The convention registration fee is \$14, payable in advance or upon arrival. To register, use the Convention Registration Form in the May issue. Please state whether or not you plan to stay at the motel. Rates will be \$19.50 per day for a single, \$23.50 for a double. Be sure to give the dates that you want the room reserved for. For those staying earlier or later than the convention dates, the room rates will be an additional \$2.00.

There's lots to do and see in the Baltimore area. Probably the northernmost city with true "southern hospitality", it's a world port, full of history. Historic Fort McHenry highlights any trip to Baltimore, and scenic cruises are available aboard the Baltimore Patriot and the M.V. Port Welcome --great for family sightseeing! Don't forget to take in the many sights and sounds of Washington DC, just 40 miles away by car or 55 minutes by Greyhound, Trailways, or Amtrack. For those who have the Navy in mind, the U.S. Naval Academy is located just 25 miles from downtown Baltimore--and you can cruise there on the M.V. Port Welcome!

Baltimore is served by most major U.S. airlines, Greyhound and Trailways interstate bus service, and Amtrack railroad service. Meushaw's provides free airport courtesy car service between 10 a.m. and 6 p.m. for groups of guests.

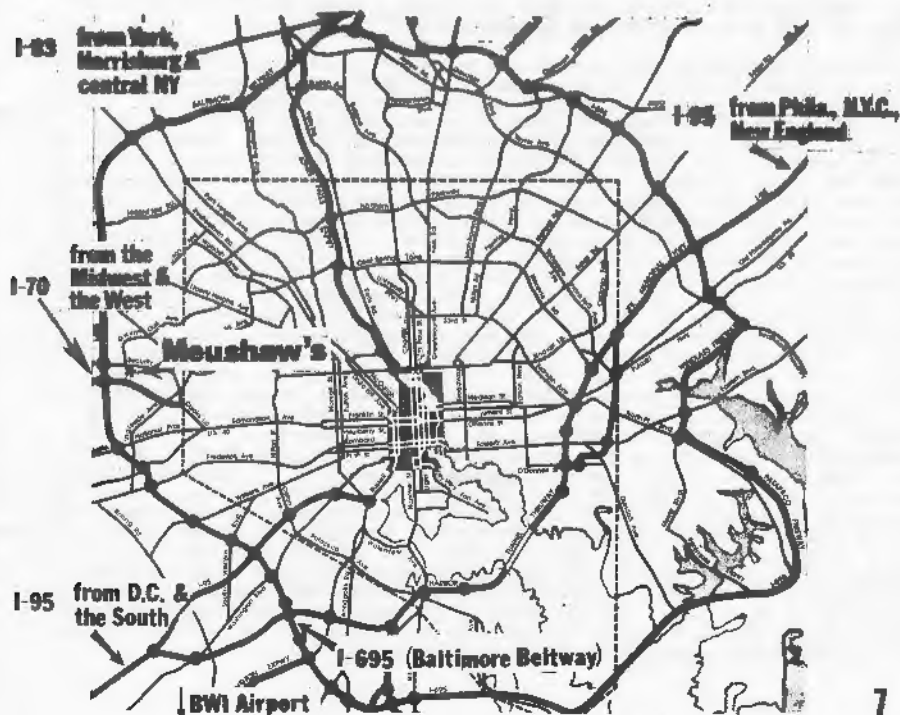
How to get there:

North...take I-83 south to I-695 towards Glen Burnie...exit at Security Blvd. (exit 17), go west on Security Blvd. (marked Woodlawn) to Meushaw's.

South...North on I-95 or Baltimore-Washington Parkway to I-695 north towards Towson. Exit at Security Blvd. (exit 17). Go east (marked Woodlawn) to Meushaw's Hilltop.

West...East on I-70 or US-40 to I-695 north towards Towson. Take exit 17, go east (marked Woodlawn) to Meushaw's.

East...West on I-695 towards Towson. Exit at Security Blvd. (exit 17) and go east (marked Woodlawn) to Meushaw's.



TECHNICAL TOPICS



Q: "Is meteor scatter DX possible on rabbit ears?"

A: Yes, but not much. Attempting to DX meteor scatter (MS) with rabbit ears will produce only limited results. You'll note more meteor bursts on an FM receiver than you will on lowband (channel 2-6) TV using rabbit ears, but that's due to the much greater sensitivity of a good FM receiver. Rabbit ears, at best, have no real gain--zero dB (or even less) when compared to a half-wave dipole, the standard against which antenna gain is measured. However, if rabbit ears are all you can use for DXing, you still have a chance at MS DX, especially if you concentrate on it during the best of the major meteor showers, such as the Perseids in late July through mid August, and the Geminids in mid December. In general, the more antenna gain you have, the better your MS results will be; however, there are usually some very strong bursts during the best part of the showers (shower peaks) which can be seen very briefly on lowband TV with rabbit ears.

Q: "Is it possible to see meteor scatter on the UHF TV channels with good equipment?"

A: Consider this: in December of 1976, veteran TV DXer Bob Cooper, Jr. saw what was unmistakably a two second meteor burst on channel 16, CCI only (the report appears in the February 1977 VUD, page 28), after about 27 years of TV DXing, and many years of looking for exotic forms of DX, such as some kind of sign of MS on UHF. So while UHF MS may be possible on TV using an excellent DX setup including a parabolic dish antenna and low-noise, high gain preamps, it is an extreme rarity. It should be noted that it is still possible to note burst-type reception from the lightning scatter (LS) mode of DX propagation, and LS bursts have been confused with MS by some DXers on the UHF TV channels.

Q: "What about lightning scatter? Do I need a super DX set-up to see or hear it, and does it affect FM as well as TV?"

A: Lightning scatter (LS) bursts are caused by electrical storm activity, and are somewhat similar in appearance to meteor scatter bursts. The effects of LS seem to be strongest on UHF, and it doesn't take anything more than a good high-gain UHF TV antenna, such as a parabolic dish to note it on TV. Of course, using a good UHF preamp increases your LS results. However, LS tends to be somewhat rare for many TV DXers, as knowing exactly where and when to look for it is critical. Contrary to popular belief, you don't always have to have heavy local thunderstorm activity in your immediate vicinity to note LS bursts. All it takes is an electrical storm situated between your location and the DX station to produce LS bursts. Ideally, the DX station will be located between 200 to 300 miles from you, with the heavy electrical storm somewhere near the midpoint. However, LS bursts can be noted from stations as close as 80 miles away at certain times, and there have been reports of LS DX from as far away as 700 miles. LS is caused by cloud-to-cloud lightning discharges which briefly ionize the air around the actual "bolt" of electricity. This short-lived ionized area scatters VHF and UHF signals much in the same manner as a meteor trail does. It should be kept in mind that this takes place at a much lower altitude (30,000 feet or lower) than meteor scatter ionization, which occurs in the E layer at around 50 miles above the earth. LS does affect the FM band, and of course presents even more of a challenge to identify in that range than MS does. A good FM yagi and receiver should do the trick. LS bursts have been noted by TV DXers on channel 2 as well, so even lowband VHF TV is subject to this propagation. A good way to check for possible LS conditions is to listen to local weather radar reports from a local TV station or the weather service broadcasts on VHF available in many regions. When you know that heavy electrical storm activity is taking place in an area 100 to 200 miles away, pointing your DX antennas at the storm area may produce some LS results. Check UHF first, if you have a good UHF TV DX antenna. If the activity is heavy, results may be found on FM and highband VHF TV as well, though only CCI bursts may be seen on highband TV, unless those channels are "wide open" in your region.

Q: "Why don't TV and FM DXers all use 300 ohm open-wire lead in? I understand this has the lowest losses of any kind of lead in made, and is great for UHF especially."

A: The specs for open-wire lead in, which is sometimes called open line, always look much better on paper than they turn out to be in practical use. To some extent, this is true of all types of lead in; however, open-wire lead in has some major disadvantages. There is no insulation on the conductors, the only thing between them is air, which is ultimately the best insulating material to use between them--but only under ideal conditions. In order to maintain the 300 ohm impedance, the conductors must at all times be kept at the correct relative spacing, usually about $\frac{1}{2}$ inch. In open-wire lead in, this is done with spreaders every six inches or so. This means that this type of T-line has to be very carefully installed. Installation is made even more difficult by the fact that it should not be allowed to bend in a sharp curve, and should be kept well away from metal, with the use of specially-made standoffs often necessary. It is very susceptible to corrosion, and if placed near vegetation, can be rendered ineffective by nothing more than a wet leaf across the conductors! In spite of all these disadvantages, you might want to experiment with it, if you are very careful about how you install it, because the specs are very inviting: often less than 0.5 dB loss per 100 feet at 100 MHz, and only 4 dB loss for the same length at 1000 MHz!

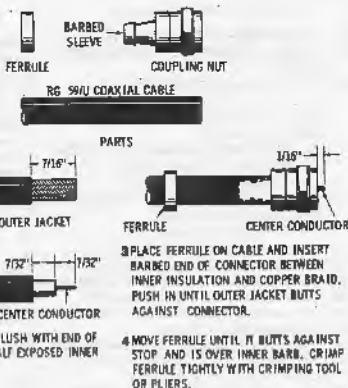
Q: "Is there some other way to install coax without having to use F-type connectors? I have a lot of trouble using them."

A: Most TV and FM signal accessories such as traps, preamps, splitter/combiners, etc., that are of interest to the TV/FM DXer are now designed to be used with coaxial cable. Thus,

you really can't get along without F-type connectors these days, and because of the convenience they offer, you really should take time to learn how to install them properly. One way to do this is to practice on leftover pieces of any coax you might have lying around in a junkbox. For RG-59U type coax (commonly used by FM DXers, and by TV DXers for VHF-TV), refer to the illustration at right provided by Finco. By practicing on a few short lengths of coax, you can soon become skilled at using F connectors--and you'll have some useful patch cables made for yourself, too. These can be quite handy during hectic DX openings, when you might want to experiment with connecting and disconnecting various traps and similar items in and out of your feedline. Make sure that you use F connectors properly, as a bad job can cause a short in the coax, or drastically change the impedance of the line, resulting in unnecessary signal loss through mismatch. When properly installed, F-type connectors help maintain the high shielding properties of the coax T-line.

Q: "What's wrong with using RG-59U for a UHF TV DX set-up?"

A: RG-59U losses are much too high to be acceptable to most TV DXers on UHF, even when using a preamp. For serious UHF TV DXing, use aluminum shielded CATV type coax (.412 or similar), or lower loss conventional coax such as RG-11U. RG-59U is adequate for use at VHF frequencies, but try to keep the length of run down to 50 feet or less. Don't use coax for UHF unless you are either using a UHF preamp, or must run your T-line through or over metal obstructions.





FM NEWS

NEW

CO Paoia *90.9 10 (9807) M. Fork Pub. R.
MD College Park *88.1 10 U. of Maryland
MS Heidelberg 99.3 3000 h.v.; 300'
OK Claremore *91.3 10 watts (not 13000;
365' as listed from FCC—budget too low for
such a power, I am second-guessing)
OK Oklahoma City *90.9 3000 h.v.; 300' g;
OK Christian College
PA Jersey Shore (near Luck Haven) 97.7
3000 h.v.; 300'
TX Pampa 100.3 47300 h.v.; 200'; m
VA Luray 103.9 3000; 11'; h
AT Granda Prairie CHFA-5 90.5 5000 h.v.; 678'
CBXP 102.5 100000h.v.; 242'
AT Hinton (53-23-49; 117-42-30) CHFA-4
100.7 85 h.v.; 278'; 31, 87 km coverage.
AT Lethbridge 91.7 8 c 100000; CBC-FM relay
BC Dawson Creek CBUF-7 103.5 720 h.v.;
969'; French language; no music.
BC Ocean Falls (52-21-20; 127-41-20) CBXO
92.1 8 watts.; 307' (336'
NS Liverpool (44-03-50; 64-43-20) 94.1 50000/
ON Attawapiskat (52-55-35; 82-25-25) CBGA
101.5 36 watts.; 126' - CBC-CBL (AM) relay
ON Belleville 94.3 50000; CBC-FM
ON Carleton Place (51-42-10; 90-48-22) 28 watts
(rounded to 1 watt) 90.1 ethnic/Indian
ON Fort Albany (52-12-15; 81-41-40) CBC
102.5 1000; 117'
ON Peterborough 103.9 18000; CBC-FM

DELETIONS

CO Glenwood Springs KCMK *90.5
PQ Sept. 1981 CBSI 95.7 replaced by CBSI 98.1)

FORMATS/NETWORKS

AL Mobile WKRG-FM 98.9 d (disco); G-100
AZ DaQueen KDON-FM 92.7 S: ON AIR, 3000
h.v.; 220'
FL Bonita Springs WLEO 96.8 d (from r)
Lehigh Acres WSWF 107.1 d (from m) *107
flocier*; Live Oak WQML 96.1 k (from m);
"FM-98" strict nonID.
Miami WQBA-FM 107.5 Spanish 50% disco 50%
Tallahassee WFSU *91.3 pc.; "FM-91."
WQOM 98.9 r.; "FM-98."
Winter Park WFFL *98.9 r (not nc); back on the
air after a long absence (historical).
WPRK *91.5 c (not pc)
WLOO 103.1 m (from mc)
GA Hawkinsville WCEH-FM 103.9 k; has vertical
Greensboro WBSF 94.3 r (from m); 2.94 mo 8
IN Indianapolis WBDQ *90.9 d; "Disco-91"
KY Louisville WGSN 99.7 r (from m); "J3-100"
KY Richmond WKU *68.8 k
LA Alexandria KSLI 96.9 c, m (not nm); no SCA
LA Bostup KTRY-FM 94.3 r (not m); no S.
Oak Grove KWCL-FM 96.7 k (not g)
ME Calais WQDY-FM 92.7 m (from k); Mutual
Portland WDCS 97.9 Mutual; still
Shoehorn RTOS 105.1 (last before on 106.7)
r (not rpl) MI Detroit WABA 92.5 (p, 100.7)
MN Litchfield KLFJ-FM 95.3 s (AP Audio)
Rochester KRCC-FM 106.9 r (from m)
St. Peter KRFI-FM 105.5 md (disco after 6 pm)
MO Mexico KWHR 95.7 k (from m)
MO St. Louis KS KXSS 107.7 d, "Studio 100."
MI Canton WNNR 101.7 l, has vertical
NY Albany WQOM 100.9 disco (d)
NY Glens Falls WYLR 95.9 r, S, "Stereo Y-96."
WNQJ 102.1 r, "107-Q."
Herkimer WYUT 92.7 r, Y-93 ON AIR: 3000
h.v.; 300'; stereo?
Troy WFLY 92.3 r (not nm)
PA Middletown WMSS *91.1 (reported on 91.7,
but 91.1 is what they are officially listed for)
disco, power changed to 125 watts h.v.; -105'
SC Charleston WPXI 95.1 Y
WKTW 102.5 no Y

MD Worton WKHS *89.5 rd - no Stereo.
TN McKenzie WKTA 106.9 k (from kg)
TX Austin KUT *90.5 PZ (from FM)
LaGrange KMLZ 104.9 m (from kg) has v
VT Rutland WTVB-FM 98.1 k (from fm);
S (AP Audio), has vertical
VA Warrenton WORA 94.3 m, S, C
ON St. Catharines CKFO-FM 97.7 k (same mt)

FACILITIES

AZ Scottsdale KOPA-FM 100.7 100000 h.v.;
1848'
AR Conway KUCA *81.5 1500 h.v.; 58'
Jacksonville KEZQ 100.3 76000 h.v. (1195')
CA Angwin KAMG *89.9 560 h.v.; 331'
Berkeley KBLX 102.9 (calls changed from
KNE-FM) 6600 h.v.; 1280'
CA Delano KONO 98.5 56000 h.v.; 330'
CA San Francisco KSFX 103.7 7800 h.v.;
1470'
CA Twenty-nine Palms KQYN 95.7 16000 h.v.;
-79' (significant increase in vertical power).
CO Denver KBPI 105.9 900' (100000 h.v.)
CO Ignacio KSUT *91.3 430 h.v.; 19'
FL Miami WTMJ 93.1 100000 h.v., 93000 v
(directional); 480', Dolby
FL Winter Park WLOO 103.1 195' (30800w)
IL Chicago WNIH 97.1 5700 h.v. 5500 v (tele-
flectional) 1190', protects WKZN-FM 96.8.
IN Indianapolis WFMS 95.5 21000 h.v.; 710'
reduces coverage to 32, 71 miles.
IN Richmond WQLK 96.1 50000 h.v. (350')
IN South Bend WNDU-FM 92.9 12000 h.v.; 880'
IA Council Bluffs KOKO 98.5 530' (100 km)
Storm Lake KAYL-FM 101.5 87000 h.v.,
51000 v (400'); to add Stereo
KS Artansas City 106.5 500' (100000 h.v.)
KY Hodgenville WKMO 106.3 1500 h.v.; 400'
Hopkinsville WHOP-FM 98.7 100000 h.v.; 295'
Lexington WLAP-FM 94.5 640' (50000 h.v.)
LA Baton Rouge WKBF *98.3 5100 h.v.; 810'
MA Bedford WBMT *88.3 710 h.v.; +18'
MI Detroit WZCY 95.5 100000 h.v.; 430',
and reduces coverage to 34, 78 miles.
Greyhound WQON 100.1 18500 h.v.; 380'
Monte Clemens WLBS 102.7 40000 h.v.,
directional; 410', d (disco)
MO Branson KIRK 108.3 3000 h.v.; 210'
MT Great Falls KAAK 98.9 26000 h.v., 500'
Minneapolis KYLT-FM 100.1 3000 h.v.; 200'
NV Las Vegas KUDO 93.1 25000 h.v.; 16'
NY Dundee WFLR-FM 95.9 600 h.v.; 808'
North Syracuse WEZG 100.9 235' (3000w)
NC Boone WASU *90.6-120', not +120'
Kinston WGAM 97.7 250' (3000 h.v.)
Shelby WKIK 96.1 100000 h.v.; 285'
NH Bismarck KDDY 94.5 1090' (100000 h.v.)
OH Akron WAPS *88.1 1700 h.v.; 70'
Portsmouth WJXT-FM 98.3 900 h.v.; 490'
OK Pails Valley KGOK 97.7 3000 h.v. (300')
Ozeca City KPNC 100.9 385' (3000 h.v.)
Tulsa KRCS 93.1 100000 h.v. (1060')
Dayton WNFJ 104.9-198' (not +198')
Gallatin WKKX 104.5 100000 h.v.; 330'
Hill St. WJMM 94.3 2100 h.v.; 730'
TX San Antonio KTFM 102.7 100000 h.v.,
70000 v; 670'
VT Stowe WFRB 101.7 3800 h.v.; 95'
VA Norton WYVA-FM 106.3 700 h.v.; 560'
WA Bremerton KBRO-FM 106.9 1280' (not
2300'); 30000 h.v. (1320')
WA Seattle KNHC *80.5 1500 h.v., directional/
WI Appleton WAPL-FM *105.7 100000 h.v.;
420'
WI Eau Claire WUEC *89.7 640 h.v.; 630'
Superior WSSU *91.3-72' (940 h.v.)
PR Aguadilla WIVA 100.3 15000 h.v. (1000')
Mayaguez WKJB-FM 99.1 13300 h.v.; -10'
Ponce WOOD 93.3 14500 h.v.; -225'
Vaquez Island WZVS 98.9 950' (50000 h.v.)

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Contributions Appreciated!

AT Coats-Mink River 90.9 720 h.v.; 63 meters
Edmonton CKO-FM 101.9 511' (100000 h.v.)
Lake Louise CKAY-97.5 1 w DA 2660'
Red Deer CKRD-FM 98.9 737' (80000 d, m
BC Burns Lake CBXB 99.1 DA
Casta CFM-8 93.1 140 DA, 460'
Dawson Creek CBKQ from 93.7 to 89.7,
1100 h.v.; 949'
Invermere CFML 102.1 1 watt DA (not 910 w);
Z398', 4 mile primary; 25 mi secondary
Pritchard CFM-7 (not CFM-9) 106.3 -1105'
(nineteen watts)
Smithers CBRS 97.5 directional
Vanderhoof CBV 96.7 *
Vancouver (no frequency assigned) 100000
h.v.; 2000'; g, Ralph Jacobson grant
CBU 97.7 48000 h, DA, 1861'
CBU-FM 105.7 181' (50000 h DA)
Vernon CBVY 105.5 1900 h.v.; 145'
MB Brandon 92.7 100000 h.v.; 912', Stereo
Winipeg CKD-FM 97.9 (to change frequency)
Not on air; 518' (100000 h.v.)
NB Fredericton-Saint John CBZ-FM 101.5 v
NF St. John's CKO-FM11 101.9 510' (100k w h)
105.9 45000 h.v.; 725'
NS Halifax CBHA 96.5 no directional antenna
ON Brantville CBDF-7 102.1 330' (2500 h.v.)
104.9 282' (3000 h.v.); S
Saint St. Marie CJOM 104.3 493' (100000)
Timmins CFTI 92.1 602' (16670 h.v.)
PQ Asbestos-Davilla 90.1 3000 h.v.; 286'
Dulapier CHLG-5 100.1 130 w (H, DA, 834'
Fort Chimo 90.1 11.2 meters (1 watt)
Lac Megantic 91.4 400 h.v.; 588'
Mont-Laurier 96.3 38000 h.v.; 415'
Sherbrooke 101.1 100000 h.v.; 547'
Victoriaville 95.5 100 h.v.; 353'
SCA [67 KHZ] (W) Suring WRYM 102.7
GA Augusta WZZW 103.1 no SCA heard - Mutual
WAUG 106.7 * "Jwas
Elberton WWRK 92.1 no SCA heard - Mutual
NA Newark WHB 105.8 no SCA recently;
main carrier said to be changing call letters
and will go Spanish when that happens.
NY Albany WHRL 103.1 music (103.1,
2C Hones Path 1T (AP Radio News) WRJX /
TX Fort Worth KESS 93.0 10 (Physicians Radio)
KPLX 99.5 TX (telemetry noise)

STEREO

CA San Luis Obispo KCPR *91.3, has vertical
IL Aledo WRMJ 102.3, has vertical, l
IA Creston KTR 101.7 has vertical
LA Bostup KJBS 100.3 d, music SCA, nonID:
"KJ-100."
Franklin KFRA-FM 105.6 no SCA heard.
Jana KJMA 98.3 MI Detroit WMZK
NE Kearney KOVF *91.3 87.0
NY Albany WAMC *90.3
OH Lancaster WHOK-FM 95.5, drops music
SCA (now carried on SCA of WPMJ 99.7
Columbus OH).
Wapakoneta WAXC 92.1, no vertical
PA Mechanicsburg WQVE 93.5
TX Taylor KR02 92.1 KTYLE 90.1, r
WA Richland KIOK 94.9, r
WI Merrill WJMT-FM 93.5

NONIDENTIFICATIONS

DC Washington WKYS 93.9, Disco-93 (not
Disco 94, incredibly).
IL Alton WZEN, Disco-100
KY St. Matthews WNU 103.1 U-103
IL Danvers WSOY-FM 102.9 FM-103
LA Shreveport KR0K 94.5 Super Rock 94
MD Morningside WPGC-FM "PGC" not Stereo
95 and one-half.
FL Boca Raton WKOS 90.9 Kim
Gainesville WGSV 95.5 FM Quad Ship
Holiday WHBS 106.3 106k Stereo?

FCC-FM NonIDs MI Detroit WTVN 92.3 Tower 92 FM WDRQ 93.1 Pure Disco 93

JULY, 1979

FL Vero Beach WFTS 93.5 FM 93
NY Springfield KTXR 101.5 FM 101
TX Southamptn WSHB 95.3 Stereo 95
OH London WZ WSYX 108.3 FM 108 (strict)
TX Houston KRLY 93.7 Disco 94
VA Arlington WAVA 105.1 FM 105, pr
WI Portage WDDC 102.1 C-100
ON Tilsonburg CKQT FM 101.3 Stereo 101
ON Windsor CJOH 98.7 Easy 88, CRLW-FM 93.9

CALL LETTERS Country 94 FM.

CA Sacramento 96.9 KROY FM (KRO) has vertical polarization

FL Jupiter 96.7 WCEZ (WRYZ FM) new format said to be all m, but one reporter said he heard k on it, but before WCEZ call letter change.

MI Milbourne 106.3 WC.F
HI Honolulu 98.1 K-HPR
ID Grangeville 92.7 KORT FM
ID Orofino 95.3 K-ER-FM
IL Granite City 106.5 WMMW (WGN-FM), r (from k) has vertical polarization

VA Virginia WHLB-FM (WIRM)
MO Bolivar 108.3 KBLR-FM (KLTB)
NC Asheville 99.9 WLOS (W.O.S.'s FM)
TX Bonham 98.3 KFYZ-FM
AT Edmonton 93.3 CBX-FM

Port McMurray 99.3 CBXN 20200 h.v. 178
101.5 CHFA-8 20200 h.v. 178'

Fox Creek (not Fort Creek) Fox Creek is located at 23-24-44 115-47-18) 91.3 CBXV 178' (38 watts).

EC Aiyash 102.3 CBYA 97 w (DA), 1271'
Atlin 83.9 CFAT-2, 210' (3 watts)
Canal Flats 97.3 CBVC 120 (DA) 787
Greenbrook 101.3 CBRR 230 (DA), 3437'
Kamloops 98.5 CBUF-6 4750 h.v. 397
87.5 CHNL-FM 4300 h.v. 468'

Kelowna 99.1 CBUF-2
Kimberley 98.1 CBUF-6 160 h.v (DA), 818'
Lytton 102.3 C.A.K (from CFHM-7)
Masset 103.9 CBYM 65 h.v., 274'
Port Clements 102.9 CBYS 90 h.v. 10'
Prince George (on frequency assigned) C D 3600 h.v. 63

91.5 CBVF 100000 h.v., 1087'
95.5 CBVF-4 200 (130 w)
Quam Charlotte 93-14-43 132-00-47) 104.9
CBYQ 90 h.v. 418'

Sparwood 97.9 CBYS 220 (DA); 858'
Terrace 96.3 CBTH 64 h.v. (DA) 1483
96.9 CBUF-3 54 h.v. (DA) 1463'

Vancouver (frequency to be assigned) CJAZ 52000 h.v (DA), 2094 CKWX radio,
6' 15 watts horizontal)

Brandon 98.5 CKB-8 21500 h.v. 712'
Limestone 194-07-41 56-30-33) 98.1 CHGG 6' 15 watts horizontal)

Winnipeg 103.1 CKWG 05000 h.v. 351', m
Richibucto 98.5 CBAT-11 (CBHM)

Marystown 90.3 CBMI
Port au Port 94.3 CBAT 16 (CBFM)
Swift Current 104.3 CBNO

Cheticamp 103.9 CBAT-17 (CBHI) this is the station Glenn Healy says cannot be heard in Cheticamp itself,
Church Point 95.9 CBAT-18 (CBAC)
Halifax 92.3 CBAT 19 100000 h.v., 711
Margaree 101.9 CBAT 15 (CBHI)
Sydney 105.9 CB1 FM 378' (100000)

Gosport 104.9 CBON-21 8000 h.v. 560'
Kingston 92.9 CBK 1800 h.v., 395'
London 99.3 CBBC-20 ON A/R
North Bay 95.1 CBON-17 (CBNC)
Peterborough-Coburn 93.5 CBEP 28400 h.v., directional 556'

Peterborough 108.3 C.B.C 5 (CJBC-16)
Red Lake 90.5 CBFA
Sarnia 106.3 apparently remaining CBEG (not CBEC), as Canada list shows CBEG.
Thunder Bay 89.3 CBON-20, French

PQ Blanc Sablon 102.7 CBMS 100 (DA) 333'
107.1 CBSI-21 100 (DA) 333'

Camp LG-1 (53-41-09, 78-33-54) 100.7 CHLG, 8 w (DA) 176' (applies to move to 95.1)
Chatham (not yet Sequency) 96.7 CJAB 320', 28600, DA.

Dolbeau 93.1 CB-3 (from CB-1)
Harrington Harbour 95.5 CBMU 2100 h.v. 263'
100.5 CBSI-16 200 h.v. 313'

Ilus Madeline 95.3 CBVM 4500 h.v. 728'
La Tabatiere 100.1 CBSI-19 200 h.v. 267'
101.5 CBMT 215 h.v. 488'

Manicouche CBFA-1 103.5 22 h.v., -83 -82
Obertown (48-39-21 74-56-18) 92.9 CBFA 2, 32 (83 watts)

Old Fort Bay 91.7 CBSI-18 42 h.v. 193'
95.9 CBMV 43 h.v. 184'

Quebec 93.3 CJMF 78800 h.v.; 1104
Rivers St-Paul 103.1 CBSI-20 35 h.v. 278'
104.3 CBMY 36 h.v. 253'

Rouyn-Noranda 88.7 CIRC
St. Augustin-Sequency 102.3 CBMX 237' (17 w)
107.3 CBSI-18 17 h.v. 257'

St. Georges de Beauce 96.7 CBV-7
Sept Iles 98.1 CBSI (replaces deleted CBSI 95.7)
96750 h.v. 784'

Trois-Rivières 103.5 CBSI-16 20 h.v., 89'
Trois Rivières 102.3 CIGB 11000 h.v., 820'
106.9 CBMZ 1326 h.v. 925

Bellevue 91.9 CBKF-4 247' (4700)
Saskatoon 105.5 CBKS 488 (59000: 8)
Zenon Park 93.5 CBKF-3 401' (1340 watts)

NWT Hey River 107.3 CKNR 32 h.v., 180'
Y.T. Jakes Corner 98.8 CFAT 1' 970' (18 watts)

THOSE ELUSIVE VERTICALS
 All the stations below apparently have vertical in addition to the usual horizontal polarization
 This list obtained after comparing my printout with a commercial data set.

AL Gunterville WTVX 95.9
Oreanta WKLD 97.7
Osark WOAB 104.9

AZ Phoenix KN X FM 102.6
Tucson KCEE-FM 96.1
Yuma KTTI 96.1

AR Camden KWEN 97.1
Mountain Home KTLO-FM 98.3
Rogers KAMD-FM 94.3
Ceres 98.5
Frederic KFRY 101.9
Lancaster KOTE 106.3
Livermore KK Q 101.7
Oakdale 95.1
Vancouver KJVC 95.5
Woodlawn KSPM 102.3
Agnes KSPM 97.7
Boulder KBVL 84.7
Broton WBSU-FM 105.5
Hartford WHCC-FM 106.9
Melbourne WL-V 107.1
Miami WEDR 98.1 70000 h.v., 47000v
Naples WRB 93.5
Pensacola WTKX 101.5
Punta Gorda WGLM 92.7
Sarasota WSPB-FM 109.3
Winter Park WLQD 103.1
Augusta WAGC 90.7
Cordale WFAY 98.3
Moultrie WMTM-FM 93.9
Thomasville WTUF 107.1
Peru WIVQ 100.9
Pittsfield WBSA-FM 97.7
Shelbyville WSHY-FM 104.9
Salem WSLM-FM 98.9
Terre Haute WVTs 100.7
Clinton KLNQ 97.7
Kansas City KJDL 98.1
Danville WMGE 107.1
Greensburg WGRK-FM 103.1

KY Harrodsburg WHBN-FM 99.3
Leitchfield WKHG 104.9
London WTTG-FM 103.9
Louisville WRS 102.3
Whitesburg WKXQ 103.9

LA Baton Rouge WKFF-FM 99.3 850' (100000)w,
Donaldsonville KSMI 104.9
New Orleans WHL-FM 101.9

ME Portland WMEA 90.1
MD Cumberland WKGO 106.1
MA Boston WERS 98.9
Lowell WSSH 99.5
North Adams WJAW 91.1
Ludington WKLA-FM 106.3
Dowse WQAP-FM 103.9
Ypsilanti WEMU 98.1
Marshall KMH-FM 100.1
Wimber KQIC 102.5
Gulfport WTAM 102.3
WROA FM 107.1
Oxford WDOH 97.5
Tyrtown WTVL-FM 97.7
West Point WKBB 100.9
Yazoo City WJNS 92.1

CA Cape Girardeau, KFMP 102.9
Carthage KRQK 104.9
Columbia KCMQ 98.7, KFMZ 98.3
Osgood KRMS-FM 93.5
St. Charles KCLC 98.1

EG Harbor City WRDR 104.8
Long Branch WRB 107.1-still Spanish?
Newton WXL 103.7
Upper Montclair WMSC 90.3
Zephreth WAWZ-FM 98.1

AB Albuquerque KJYJ 100.3
Farmington KRWV 92.8, KRAZ 96.9
Gallup KOVO 84.5
Las Cruces KRWG 90.7
Santa Fe KAFEM-FM 97.3
Binghamton WHPW 90.6
Elmira WLEZ 92.7
Hyde Park WHVS 97.7
Itasca WEIV 103.7
Kingston WBPM 94.3
Port Jervis WOLC-FM 88.7
Troy WRPI 91.5
Asheville WBNL 91.3
Bates Creek WCCB 90.1
Clinton WRZ-FM 107.1
Jacksonville WXXR 105.5
Rocky Mount WRSY 92.1
Cadwell WCCR 90.3
Cashotown WTNF-FM 99.3
Waverly WIBC 100.9
Greentown S WYSU 98.5
Yougham KMHV 88.5
Medford KBOY-FM 95.3
Portland KGBN 92.3, KXLF-FM 94.5
Bedford WAKM 100.9
Danville WPGM-FM 96.7
Franklin WQLN-FM 91.3
Erwin WVEN 99.3
Greenville WGRP-FM 102.1
Huntingdon WRAR 108.3
Lebanon WVCC 101.7
North East WHPY-FM 100.9
Philadelphia WXPW 98.9
Selinsgrove WOSU 98.9
Shamokin WSS-FM 95.3
Providence WPB 105.1
Greene WEPB 90.1
Moncks Corner WTVF 105.5
Chattanooga WDTN 97.7
Fayetteville WYTM 105.5
Johnston City WQUT 101.5
Lowell WKJM-FM 94.3
Nashville WFLA 90.3
Punk WMS 96.3
Smithville WLE-FM 101.7

TX Austin KMFA *89.5
KQKE-FM 95.5
KHFI 98.3
Denson KSCC *89.7
Lubbock KSEL-FM 93.7
KLBK-FM 94.5
VT Burlington WEZF 92.9
VA Altavista WKDE-FM 105.5
Charlottesville WVMW 87.5
Culpeper WCUL 93.1
Front Royal WFFY 99.3
Harrisonburg WQPO 100.7
Richmond WEZS 103.7
Tadley WESR-FM 103.3

FM NEWS AND READERS' REPORTS

WV Parkersburg WQAW 103.1
Wheeling WVPN *89.9 [2050] v
PR Guyana WKRF-FM 106.9 50000 h.
Marysue WAEI-FM 96.1
WIOA 97.5
Ponce WIOC 105.1
San Juan WKAC-FM 104.7
WKVM-FM 105.7
Utuado WERR 104.1
BC Alert Bay C8RY 105.1
MB Winnipeg CJUM 101.5
PD Lithium Mines CMLM-1 97.3

ABBREVIATIONS

Program conts. c classical d disco, e ethnic, g gospel, j jazz & country, L Latin/Spanish, m middle of the road, but no rock; p progressive rock, < rock hits, oldies and rock songs that never made any hit list, including easy-rock, s soul. Network codes: A ABC FM (ABC standing for American Broadcasting Co.), B National Black Network, C Columbia Broadcast System, E ABC Entertainment, I ABC Information, M Mutual, N National Broadcasting Co., P National Public Radio, S Associated Press Audio, U United Press Audio, Y ABC Contemporary, Z Mutual Black \$ a stereo, h a horizontal effective radiated power in watts, v vertical radiated power in watts.

Florida's John Combs is being a media activist along with his DX'ing. He's called on WQHL 98.1 Live Oak FL and directed them to give legal calls on the hour, instead of always calling selves "FM-98," and he's called WQLM 92.7 to complain about their being on 92.9 (the engineer there admitted to not having a frequency check for quite some time). He also heard WKLT 97.7 Kalkaska MI, on air! WOMC 104.3 Detroit heard with Italian, a new format for them? Both WMNF *88.5 Tampa and now WDNA *88.9 Miami are off the air. John is also gonna complain to WTUL-FM 95.3 Apopka FL for leaving their carrier on all night! And WSWF #97.1 Lehigh Acres claims to give a legal ..d. In a jingle once per hour, but John has not heard this jingle with the legal ..d., and he's about to open fire against that station—more power to you, John! (WQLM 92.7 is in Punta Gorda FL.)

New public FM stations are planned for Camden ME, Portland ME (a public-access station, probably another slow to build station like Nora Blach *90.7 New Orleans and WMNF Tampa, and another in Concord NH, says antenna artist Rod O'Connor. Peter Sawatzky claims WERG Eric has been heard on 89.5, instead of their supposed to operate on frequency of 89.9, but he's checking further. He heard a "KOYR" 92.5 on skip, but my data show nothing like that.

The Cleveland Public Library is buying WBOE *90.3 from the schools, and it will be operational by the end of the year. New calls applied for WCPL.

WFMT-FM 98.7 Chicago will become the nation's first radio superstation, going on the satellite, RCA's Satcom 1 24 hours per day, piggyback on the WGN-TV uplink at Lake Geneva WI. The classical format of WFMT-FM will give it an unique appeal to many cable subscribers, and will help WFMT-FM sell advertising, particularly mail-order ads (FM Atlas?).

Richard Wood would like the FM Atlas to list stations whose transmitters are in a state or a province other than that of their city of license. I'm not going to promise that, but look for a lot of exciting changes in the next FM Atlas, when it is out.

KQRS-FM 92.5 Golden Valley will be carrying NBC's special new newscast, "The Source" for album-rock stations. I'll be watching to see if "The Source" qualifies for listing as a network. You will notice that I now recognize disco as a legitimate radio station format and music form in its own right. After studying the matter (doing more of that than actually listening to disco, as I am not a masochist), I concluded that disco with its peculiarity of beat qualifies it as a distinctive and evolving musical form, unlike album oriented rock, or middle of the road, as opposed to beautiful music. Late summer is when stations like KQRS FM are expected to move to the 800+ IDS tower.

In Muncie, WBST 92.1 back on regular schedule noon to midnight after complaints of interference to TV channel 6 have been resolved. KIOR 103.9 Coeur d'Alene ID was to have come on the air June 4. "A horrid hillbilly station!" is how Ralph Strobel describes WKTA 106.9 McKenzie TN, with slogans used including "Truckers Country Music," "Big Country Radio," "No. 1 Country." KVII 103.7, r, s, identifies as Highland Park-Dallas-Fort Worth, in that order.

Mark Lucas, an SCA listener, has a stereo tape of Muzak, sent from England, which is said to be of as good quality as main-channel FM. It was dubbed off one of their masters, probably not with Muzak's approval. Al Ellis enjoys student FM stations from the U.S., and has heard WERG Erie, implying that they are on 89.9 as they are supposed to be. "This of course does little for WKSU of Kent OH close by in frequency (89.7), they do fortunately breakfast that useless CBC station in Windsor (89.9) busily broadcasting the same stuff as CBC in Toronto and London's CBC outfit. We uns are going to be fed Culture if it kills us, it might, if we listen and most do not. This catering to junk receivers by the idiots we have in Ottawa is beyond me... Four powerful FM stations all within 200 miles is a bit too much... I suppose fiddle players have to live, but off a record?" Phil Boersma says WJFM 93.7 Grand Rapids' transmitter is at Gunn Lake, between GR and Kalamazoo. WSRX *88.5 Allendale has given up going up to 1 kw from 10 watts.

WJOI 93.7 Pittsburgh has its own background music, "Musicast," 24 hours without ID. The state whose radar detector prohibition was recently struck down was Virginia. In Chicago, Dialogue Publications is looking for a station to start a talking book service; thinking of WBEZ. According

to one source who wants to be unnamed, WXRT 93.1 Chicago modulates its SCA fully 13%, which is above the 10% maximum the FCC permits stereo stations. He says they favor SCA at the expense of their main channel because "their main channel ratings are poor, and they make a large part of their money from their background music SCA service. Meanwhile WEFM 99.5 Chicago doesn't much care about their sub-carrier, which they give just 7.8% of their total modulation. They also modulate their main carrier more densely, which is probably why their PRN comes through so poorly on the SuperSnooper."

Another SCA listener notes that the audio quality of the Physicians Radio Network is good on both WGN 107.7 Albany and WEVD FM 97.9 New York, but "it's awful" on WDJF 107.9 Westport CT. WHEI 105.9 "should be sold in a distress sale soon and should change calls to WUOK and become all Spanish. Also, I have not heard their Chinese SCA in a while, although the competing SCA on WRVR 106.7 is still cooking." Also expected to change call letters is 99.7 Louisville KY, WCSN, now rock and nonIDing as "JJ-100." They want WKJJ FM.

A response came to my contest to sit on 102.3 and listen to the Fredericton-Saint John NB CBC station give its legal calls and cities of licence, with Pierre Daigle sending a tape with its complete sign off, which doesn't say much more than their regular hourly identification, translated, which would be "CBAF is CBC's French network of the Atlantic." He sent a quality 7 1/2 ips stereo tape, recorded at 513 km via tropo, with sign off occurring 0010 EST April 30, 1979.

Very interesting was a letter that I received from Gilles Courtemanche, P. Eng., director, Broadcasting Regulation Branch, Telecommunication Regulatory Service, Canadian Department of Communications, Ottawa, who said:

"...The Department will soon gazette for public comment guidelines and regulations for the assignment and usage of call letters for identification purposes. There are no mandatory procedures for FM station identification under existing regulations."

So all you DXers, living on either side of the border and who expect to receive Canada FM stations, here is (or soon will be) your chance to comment to the Canadian DOC at 300 Slater Street, Ottawa, Ontario K1A 0C8, and perhaps effect a change that would result in Canadian stations giving proper identifications at regular intervals.

Also received were updated Canadian FM station lists, on-air and authorized, with the new data dutifully recorded on the preceding pages, notably under "facilities" and "call letters."

David Walcutt sent a long article from the Houston Business Journal going into local radio formats, and the expanding audience for FM. The article noted how KRLY 93.7 went from album rock to disco, and how KFMK 97.9 has applied to change from religious to rock, which is being sold to the Marriott hotel and amusement park company.

KJFF 106.9 Jefferson City made signal improvements, so KWWR 95.7 in Mexico Mo switched from middle of the road to country, alleges one of my correspondents.

Andy Smith says the fate of WGTB *90.1 Washington DC still being decided. Probable license is the University of DC. There is a suit to retain the format by whomever gets license. Former WGTB staffers have formed a group to try to retain as much of the present format as possible. Their address: Friends of WGTB, Box 32370, Georgetown Station, Washington DC 20007. "When station went off the air, about 200 marched to FCC at 1919 M Street, N.W. chanting "GTB" and "Disco sucks." Andy points out that WPGC AM FM Morningside MD is owned by Marriott Corp., the same company planning to take over Houston's KFMK.

CONTRIBUTORS

Phil Boersma, Muskegon Heights MI, John F. Combs, Orlando FL, Pierre Daigle, Sainte-Foy PQ, Vernon Easton, Beaufort AR, John Ebeling, Bloomington MN, Albert H. Ellis, Brantford, Ont., Ted Fleischaker, Louisville KY, Mark S. Lucas, Lancaster OH, Morris E. Goldman, Chicago IL, Robert Goodman, Cicero IL, Gregory Monte, Bayville NY, Richard Noels, Washington MO, Rod J. O'Connor, South Portland ME, W. G. Robson, Ottawa, Ont., Peter Sawatzky, Guelph, Ont., Larry Short, Canon GA, Andy P. Smith, Dillsburg PA, Ralph Strobel, Munce IN, Rudy Urban, New Haven CT, David L. Walcutt, Houston TX, Richard E. Wood, Ph. D., Cape Girardeau MO. And some data came as the result of my skip reception to LA and TX of June 7.

appeared early in June at a Minnesota state church convention attended by about 1,000 clergy and lay delegates. While there I submitted a resolution on destroying SCA as a means of increasing service to the public including minorities, the elderly and the handicapped, with the recommendation that MN State Services for the Blind not resist public unionization of this resource, and for the national body to request the FCC, Washington DC, to encourage the public to tune in SCA and to make available low cost variable-tuned SCA radios. The group unanimously approved referral to its Social Action Committee for study of my resolution, which action came about after I spoke to that point. I will serve as consultant to the committee on that matter. Also contributing: Robert Grant, Detroit MI, David Leipold, Blyth ON (who says Toronto cable station CRTC 9-9 has an outdoor mike and broadcasts bird-chirping, street noises, etc. when normal y o t e r 1100-1700

FCC TV NEWS

JOHN F. COMBS
2485 IVAN CT.
ORLANDO FL 32807
305-677-0066

July 1979

TV NUMBER 1000 IS ON THE AIR!!!

NEW ON-AIR

KLRU-18+ Austin TX 5-3-79 (PBS)

CONSTRUCTION PERMITS GRANTED (*=pay-TV)

Flint MI Ch. 28- ETV 2450-kw 870 AAT
Minot ND Ch. 6+ ETV 100-kw 1070 AAT
*Philadelphia PA Ch. 57 1660-kw 290 AAT
Reading PA Ch. 51 1820-kw 750 AAT
Spartanburg SC Ch. 49 ETV 912-kw 960 AAT
Eau Claire WI Ch. 18 501-kw 740 AAT

APPLICATIONS FOR NEW STATIONS (*=pay-TV)

Opelika AL Ch. 66 131-kw 691 AAT
*Atlanta GA Ch. 69 1260-kw 950 AAT
" " " " " 597-kw 847 AAT
" " " " " 1452-kw 531 AAT
" " " " " 2483-kw 799 AAT
Macon GA Ch. 24+ 1500-kw 806 AAT
De Kalb IL Ch. 48- ETV 4560-kw 1093 AAT
*Joliet IL Ch. 66+ 5000-kw 1548 AAT
" " " " " 4020-kw 1530 AAT
" " " " " 5000-kw 1482 AAT
" " " " " 5000-kw 1310 AAT
Indianapolis IN Ch. 59- 5000-kw 1023 AAT
" " " " " 2818-kw 978 AAT
" " " " " 1000-kw 867 AAT
Manistee MI Ch. 21 ETV 1405-kw 1189 AAT
Albany NY Ch. 23- 3210-kw 1032 AAT
" " " " " 1321-kw 1005 AAT
Knoxville TN Ch. 15- ETV 1271-kw 1683 AAT

PAY-TV GRANTED

WKID-51 Ft. Lauderdale FL
KMUU-31 Sacramento CA

CHANGE IN CALL LETTERS

WVVA-6 Bluefield WV (ex-WHIS)

Once again, your illustrious (?) FCC-TV editor finds himself with little time to spare. Hence, I must forego the reader's comments this time. I have not scanned Broadcasting yet either. Hopefully, since I am taking the summer off from school, this will not be the case for the next 2-3 columns. ONE QUICK NOTE: could somebody (Mark? Joel? Pete? anyone?) supply me with CRTC info on Canadian changes? This information is lacking from my column and I have not seen anyone else compiling it in quite some time. More next time!!.....73, JOHN.

CHANGES GRANTED IN OPERATING STATIONS

WLFB-27 Baton Rouge LA to 1170-kw (813)
WUHQ-41 Battle Creek MI to 2000-kw (3100)
KRNE-12 Merriman NE to 235-kw (182)
KOLB-8 Reno NV to 49-kw (151)
WPTD-16 Kettering OH to 1380-kw (759)
WBIR-10, Knoxville TN to 1790 AAT (1870), move xmtr
WCVE-23 Richmond VA to 2290-kw (2340)
MWTI-36 Milwaukee WI to 1170-kw, 930 AAT (316,440)

CHANGES IN ALLOCATION TABLE (A=Add; D=Delete)

Fort Walton Beach FL A 35
Beattyville KY A 65
Florence KY A 58
Lexington KY A 36 D 62
(How will this affect status of WTVQ-62?)
Portsmouth OH D 36

SELECTED TRANSLATOR APPLICATIONS

St. James MN Ch. 32 (KAAL-6) 1000
St. James MN Ch. 44 (KMSP-9) 100
Oklahoma City OK Ch. 14 (KTBN-40*) 100
(*by satellite)

SELECTED TRANSLATOR CPs

Rutland VT W58AH (WVNE-31) 100
Castlewood VA W57AI (WKPT-19) 100
Dickensonville VA W63AK (WKPT-19) 100
Honaaker VA W55AK (WKPT-19) 100

STATE OF THE INDUSTRY

1000 TOTAL TV ON-AIR
623 VHF (515 Comm.; 108 Non-comm.)
377 UHF (210 Comm.; 167 Non-comm.)

3584 TOTAL TRANSLATORS

2389 VHF, 1195 UHF

WTAP-TV WHP TV 8

15

PARKERSBURG MARIETTA

WIXT

WLTN-TV 19

WFMJ-TV

WAKE

CKY-TV

WINNIPEG

10

STRONG

KOLN TV KGIN TV

A CBS AFFILIATE

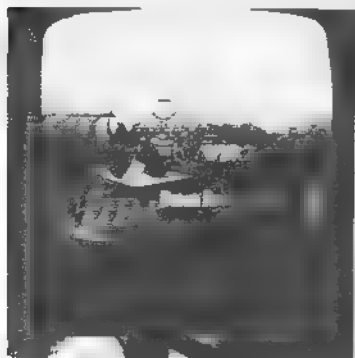
LINCOLN, GRAND ISLAND

PHOTO-NEWS

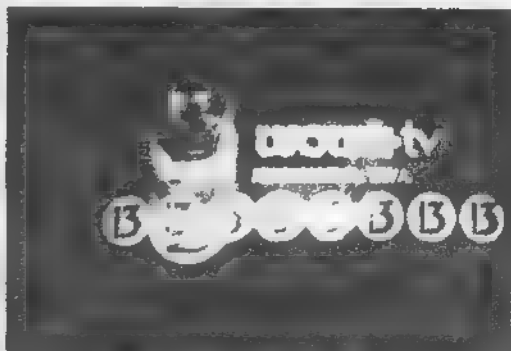
Jim Alexander
4 Brook Court
Parsippany, NJ 07054

July, 1979

Texas-to-Florida tropo came late this year, but was worth waiting for, as evidenced by this month's photo of KHTV 39 by John Combs. 850+ mile tropo signals of such quality are not often received -- much less turned into photos such as this month's!



WBRZ-2 Baton Rouge, LA
E-skip (Simon)



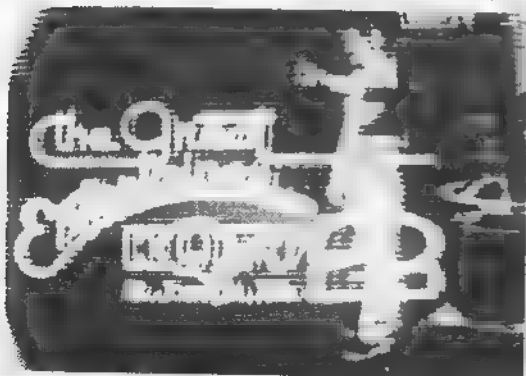
WOWK-13 Huntington, WV
280 mile tropo (Gaines)



WRAU-19 Peoria, IL
345 mile tropo (Gaines)



KHTV-39 Houston, TX
855 mile tropo
5/21/79 (Combs)



KQTV-2 St. Joseph, MO
E-skip (Barber)

Contributors:

Ken Simon, (photo taken at
West Palm Beach FL)

Paul Gaines,
Detroit MI

John Combs,
Orlando FL

John Barber,
Carolina RI

73 and good DX, Jim

NORTHERN FM-DX

Ralph Strobel, editor
2510 E. McGalliard Rd.
Muncie, Indiana 47303
(317) 288-5815

Deadline: the 10th

July 1979

For FM DXers in Canada, the Northwest-Central states of WA OR ID MT WY ND SD NE MN IA MO and states east of the Mississippi River and north of the Mason-Dixon Line. All DXers from this area are encouraged to send me your FM DX loggings.

JUNE 1st E-SKIP BOMBARDS FM ANTENNAS IN THE NORTH!

Dr. Bruce F. Elving - 18 1/2 East Fifth Street - Duluth MN 55805

Equipment: Sony ST-5130, using 6-element horizontal or 5-element vertical yagi antenna mounted on front porch.

There was no DX here from Sept. 7 until Dec. 25, when I picked up K280AW 103.9 Hoyt Lakes MN, a translator of WAKX-FM 98.9 Duluth. I even called WAKX-FM and found out what time they would identify the translators, so I got a nice tape of K280AW's legal i.d.: This is a 10-watt translator.

The only skip to date was Friday June 1, when skip was in solid from 10:25 am CDT to 1:15 pm. New stations received: KWCL-FM 96.7 Oak Grove LA, \$; KTRY-FM 94.3 mono rock, announcing they will go 24 hours starting June 4, KJBS, "JB-100," stereo Disco with music SCA, both Bastrop LA. I purposely tuned in KJBS on the hour to hear their legal i.d., as I do not count stations only giving their slogans. KJNA 99.3 Jena LA heard in stereo with the monaural Earl Nightingale Program, ending 12:30 pm, then KEIR 88.9 Commerce TX also with false stereo and "Options" at 1:02 pm, followed by reception of KNUE 101.5 Tyler TX, m, \$, music SCA. I re-received KPRA-FM Franklin LA in \$ on 105.5, having been received in 1975 on 95.3 when it was monaural; KREV 100.3 Alexandria LA (previously as KDBS-FM); KSLI 96.9 Alexandria LA with CBS and no rock (only m music), no SCA heard, although listed as SCA music (previously heard in 1952 as KALB-FM). Also heard with new call letters: KAFM 92.5 Dallas (formerly KRDL-FM, verified as such in 1952), KPLX 99.5 (previously as KXOL-FM), and KROK 94.5 Shreveport LA, using non-ID "Super Rock 94," except on the top of the hour when I heard their full i.d. (heard in 1953 as KWKB-FM). Distances for these receptions ranged from 975 to 1225 miles. I now have 1464 stations heard on FM, since I started DXing from the Duluth area in 1948.

73, Bruce

Harry J. Hayes - 9 Henry St. - Wilkes-Barre, PA 18702

Equipment: Zenith Trans-Oceanic, Stacked Quad loop cut to 104 MHz. in Wilkes-Barre Zenith w/built-in antenna at Gouldsboro. *DXing at Gouldsboro. New underlined.

*4/13 tr	1958 WNYU	89.1 NY New York	100
	2007 WVBC	88.7 NY Hempstead Irish mx, varie received	110
	2100 WBSU	88.7 NJ New Brunswick disco mx	75
4/18 as	2200 WMGM	103.7 NJ Atlantic City (on airplane scatter)	130
5/22 Re	1740 WQTD	93.7 MS Biloxi	1000
	1744 WBTU	95.7 LA New Orleans	1100
	1757 WTYL	97.7 MS Tylertown local nx	
	1800 KFDY	99.9 LA Lafayette (ex-KPEL)	
	1805 WALT	97.1 MS Meridian r	950
	2035 WQST	92.5 MS Forest k	
	2100	Sitting on 93.5 at this time, the following ID's scooped up within one minute:	
	KVPI	93.5 LA Ville Platte s/off of 1050 AM ID's	
	WXIY	93.5 MS Bay Springs taking place of KVPI	
	WHJT	93.5 MS Clinton taking place of WXIY. ID "The FM Alternative" backed by Beethoven mx.	
	2111 KSNB	96.1 LA Lake Charles "FM-96" ID	

All skip received on quad loop. Not too much skip. It looks like 1978 again.

* READ ON! *

NORTHERN FM DX

JULY 1979

Fred McCormack - Box 5221 - State University Sta. - Fargo, ND 58105
Equipment: Heath AJ-1600 Tuner, Winegard CH-7078 Antenna, Alliance Rotor (CST/CDT)

11/21	tr	2208	KDVL	96.7	ND	Devils Lake	6/1	Es	0950	WRPM	107.9	MS	Poplarville
11/22	tr	1930	WWJO	98.1	MN	St. Cloud	0952	WBAD	94.3	MS	Leland		
11/24	tr	0120	WLOL	99.5	MN	Minneapolis	0959	KRRV	100.3	LA	Alexandria		
11/25	tr	2207	KHWC	96.5	SD	Sioux Falls	1003	WAFB	98.1	LA	Baton Rouge		
11/26	MS	0020	WFMS	95.5	IN	Indianapolis	1008	KSMY	104.9	LA	Donaldsonville		
	tr	0914	KTIG	100.1	MN	Pequot Lakes	1015	KAJN	102.9	LA	Growley		
12/10	Es	2020	WLOW	95.9	SC	Aiken	1018	KVVP	105.5	LA	Leesville		
		2023	WFOK	97.1	GA	Atlanta	1023	KYXS	93.3	TX	Killeen		
		2030	WTOG	94.1	GA	Savannah	1032	KVPI	93.5	LA	Ville Platte		
		2036	WZAT	102.1	GA	Savannah	1040	WTFY	94.7	MS	Jackson		
4/6	tr	0953	KAYS	90.1	MN	Thief River Falls	1058	KSMB	94.5	LA	Lafayette		
4/24	tr	2023	KBCM	95.5	IA	Sioux City	1107	WBBM	102.7	FL	Milton		
5/11	Es	1840	KBCW	104.1	LA	Houma	1120	WJLQ	100.7	FL	Pensacola		
		1841	KCIL	107.1	LA	Houma	1125	WSLY	99.3	AL	York		
		1845	WJFR	96.3	MS	Jackson	1128	WNEZ	94.1	FL	Pensacola		
		1910	KSMB	94.5	LA	Lafayette	1130	WPCS	89.3	FL	Pensacola		
		1913	KDEA	99.1	LA	New Iberia	1137	KATH	96.5	TX	Houston		
		1915	KSNS	96.1	LA	Lake Charles	1137	WKSJ	94.9	AL	Mobile		
		1919	KQID	93.1	LA	Alexandria	1139	WBLY	92.9	AL	Mobile		
		1922	WYNN	101.5	LA	Baton Rouge	1145	KNUV	101.5	TX	Tyler		
		1922	KYKK	93.3	TX	Port Arthur	1147	WALT	97.1	MS	Meridian		
		1956	KBBE	104.1	TX	Houston	1154	KCEB	105.7	TX	Houston		
		2000	KUHF	88.7	TX	Houston	1156	KMGQ	102.1	TX	Clear Lake City		
		2013	KNUV	101.5	TX	Tyler	1156	KLOL	102.1	TX	Houston		
		2038	KATH	96.5	TX	Houston	1157	KODA	99.1	TX	Houston		
		2045	KQVE	102.9	TX	Houston	1159	KLEF	94.5	TX	Houston		
		2047	KPLX	99.5	TX	Port Worth	1202	WAJB	107.3	FL	Pensacola		
		2054	KWJS	94.9	TX	Arlington	1212	KBAN	105.1	TX	Abilene		
		2055	KVIL	103.7	TX	Dallas	1226	KFMB	107.9	TX	Abilene		
		2058	WRR	101.1	TX	Dallas	1235	KLPI	92.7	LA	Lake Providence		
5/23	Es	1956	KWIC	107.7	TX	Beaumont	1240	WNOE	101.1	LA	New Orleans		
		1959	KQXY	94.1	TX	Beaumont	1245	WSJC	107.5	MS	Magee		
		2002	KAYD	97.5	TX	Beaumont	1255	WTVV	106.7	MS	Vicksburg		
		2236	KPER	95.7	NM	Hobbs	1256	WZZY	105.9	TN	Memphis		
5/25	Es	1247	WLEL	105.3	LA	Slidell	1302	WLLN	95.5	MS	Jackson		
6/1	Es	0916	WCCA	94.1	MS	McComb	1307	KBNY	102.3	AR	Brinkley		
		0932	WQLY	100.7	LA	Baton Rouge	1310	WDAL	101.3	MS	Meridian		
		0934	WENO	99.5	LA	New Orleans	1311	WJMI	99.7	MS	Jackson		
		0935	WTFM	102.5	LA	Baton Rouge	1324	WZQZ	102.9	MS	Jackson		
		0940	KKYK	103.7	AR	Little Rock	1355	WKVW	98.1	AL	Fayette		
		0946	KSLI	96.9	LA	Alexandria	1405	WRSA	96.9	AL	Decatur		

.....

Roger Winsor - 2610 W. 49th Ave. - Hobart, IN 46342

Equipment: Sony 5130 owned by WFFDAer John Zondlo. 6/1 Es via car radio.

5/18 tr	2304 WLWU	88.7 IL Chicago j# 10w.	6/1 Es, all by mobile in car RX. Many missed, as I didn't have any earphones.
5/19 tr	1405 WARG	88.9 IL Summit w/WSND looped out. My most wanted semi-local. 10w.	1300 KBLJ 92.1 CO La Junta k# ID
5/22 Es	1925 WHFQ	92.7 FL Ocala	1302 KLMR 93.3 CO Lamar ada, nx
1930 WVHG	92.1 FL LaBelle "cy-92" mono	1330 KIOZ 101.9 WY Laramie r, state #33	1430 KAWY 94.5 WY Casper r, WY happen-
1940 WEEJ	100.1 FL Port Charlotte m	ings with Buffalo Bill in Cody.	1520 KADK 105.1 CO Denver j o/WOJO
2015 WXTL	92.1 SC Myrtle Beach rs	1513 KAZI 106.7 CO Denver "KZ-107" o/WYEN	1518 KPPL 107.5 CO Lakewood m o/WGCT
2029 WKRT	98.3 SC Kingstree Braves BB	1520 KYCL 93.3 CO Fort Collins rp	1530 KIBH 93.5 NE Ogallala local ad
2030 WOKD	98.3 FL Arcadia k	1540 KULL 94.5 KS Scott City ad	1550 KINX 101.9 CO Colo. Springs o/WCLR
5/27 tr	???	WBRG 88.9 IL River Grove w/WSND null. Triton College-much wanted 10w.	1555 KGRE 92.5 CO Greeley m, PSA
John Zondlo was nice enough to let me use his 5130 Sony whilst he was on vacation and let me tell you, that is one hot receiver! I didn't know Es was in until I was trying to listen to WKRT 93.1 and kept hearing Texas nx. It was KBID 92.9, and from there on it steadily worked northward into WY. Band at one time was completely skipping. KCFR 90.1 Denver still not identified because of WMBI signal. It was fun to DX in the car. I had an atlas-it helped. Good DX to everyone. 73,Rog			

Peter Sawatzky - R.R. #4 - Guelph, ON N1H 6J1

Equipment: Sony ST-5130 tuner; Delhi 1047 antenna #70'; homebrew automated tape DX setup as outlined in previous reports. All stations received via automated setup asterisked* and time span during which received given as time not precisely known unless given on tape by announcer. All loggings EST to April 28 and EDT thereafter.

3/29 GW 0730-2100 CFMX* 103.1 ON Cobourg 110
(new station testing with ID)
5/5 tr 2034 WAUS 90.7 MI Berrien Springs 325
5/10 Es 2128 KCFR 90.1 CO Denver 1270
5/18 Es 0800-1300 KETR* 88.9 TX Commerce 1080
0800-1300 KWPM* 93.9 MO West Plains 770
0800-1300 KCBG* 90.7 MO Joplin 855
0800-1300 KWET* 97.3 OK Weatherford 1125
5/19 Au 0000-0100 While driving on Highway #17 west near Pembroke, Ontario, (between Ottawa and North Bay) witnessed the most spectacular display of northern lights I have ever seen. Tuned through the FM band on car radio and found every frequency affected although no ID's were attempted. Effects of the Au on FM was particularly noticeable in this area due to the absence of locals.
5/22 Es 1735-2100 WPAP* 92.5 FL Panama City 955
1735-2100 WFSU* 91.5 FL Tallahassee 920
1735-2100 WJAG* 100.9 FL Marianna 925
5/24 GW 2223 WWOR 104.1 NY Buffalo 85
(first time by new calls - ex-WWOL-FM)
5/30 Es 1800-2000 WMCU* 89.7 FL Miami 1205
1800-2000 WSHF* 103.5 FL Fort Lauderdale 1190
2000 WERS* 90.7 FL Boynton Beach 1160
2005 WWVL* 93.9 FL Miami Beach 1225
(first time by new calls - ex-WBUS)
2000-2145 WMBB* 89.3 FL Boynton Beach 1160
(no longer on 88.7 as listed in FM Atlas - ID heard including frequency)
6/1 Es 1255 KEBC* 94.7 OK Oklahoma City 1045
1255-1330 KCSC* 90.1 OK Edmond 1070
1330 KTEZ* 101.1 TX Lubbock 1350

Also note that in my report in the May/79 VUD, my 3/7 logging of Fredonia NY should read WCVF, not WCBF as I listed them (this per Bruce Elving). Also, Bruce mentions that WERK Erie PA is on 89.9 MHz. rather than the 89.5 MHz. that I listed and now with 3 KW rather than their previous 10 W on 89.1 MHz. Al Ellis has apparently heard them on 89.9 although I am reasonably certain that they were on 89.5, since I logged them on 2 separate occasions with ID's although they did not include their precise frequency in the ID. I'll reserve judgement on this until I hear them again. The 89.5 frequency was noted while I still had my Pioneer TX-9500 which has superior frequency readability and accuracy than my present Sony ST-5130.
73, Pete

John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431

Equipment: Heath AJ-15 & Sony ST-5130 all at Bloomington location. New mode dashed. Time in CST. New underlined.

4/1 Au 1930 KCKN 94.1 KS Kansas City 6/1 Es 1110 WFLA 105.5 MS Indianola
2000 KRGI 96.5 NE Grand Island k 1116 WFTT 103.3 LA Hammond
4/24 tr 1125 WTYX 94.7 MS Jackson r "94-Ticks"
0645 KRGS 104.9 IA Spencer g 1127 WQUE 93.3 LA New Orleans r "Q-93"
0700 KICW 102.3 IA Forest City 1129 WBAD 94.3 MS Leland
5/15 MS 1135 KXTX 88.1 TX Lubbock "FM-88" E nx
0550 KQXY 94.1 TX Beaumont "...Here at 1137 KIVY 92.7 TX Crockett
6/1 Es 1141 WAFB 98.1 LA Baton Rouge
1033 WRJH 97.7 MS Brandon g 1147 KROZ 92.1 TX Tyler k
1044 WJNS 92.1 MS Yazoo City 1153 KUHF 88.7 TX Houston proms SS ID
1046 WCCA 94.1 MS McComb k 1200 WYNK 101.5 LA Baton Rouge
1055 WLIN 95.5 MS Jackson m 1201 KDQN 92.7 AR De Queen AP nx, new
1100 WTUL 91.5 LA New Orleans 1215 KEPT 96.5 LA Shreveport g
1100 WNO 89.9 LA New Orleans This has been a rotten year up here for
any DX. Even channel 2 has had Es only a couple of times, and the opening never
made it to the FM band. June started out with a bang, but there has been nothing
since the 1st. Hope to have more to report next month if nature cooperates. 73 John

A second report arrived from John Ebeling of Bloomington, MN indicating more Es -
6/5 Es

1745 KOB	93.3 NM	Albuquerque	1800 KLYT	88.3 NM	Albuquerque
1747 KRST	92.3 NM	"	1800 KRWG	90.7 NM	Las Cruces
1757 AHFM	96.3 NM	" + SCA (music)	1823 KAVI	95.9 CO	Rocky Ford SS, mono,
1759 KFMG	107.9 NM	" r (thru local			h polar. only (in for 25 min.)
		KTWN)	1859 KINL	92.7 TX	Eagle Pass r

Also on 94.1, a "KYNM" which is what call sounded like, but didn't get city nor can I find call. Music was k.

Paul Mount - 35 1/2 West Columbus St. - Nelsonville, Ohio 45764
RX: Sanyo AM/FM Stereo M 9980

5/10 GW	0809	WKFX	102.3 OH	Wilmington r	85
5/14 tr	0100	WFBC	94.7 IN	Indianapolis rp, WVKO off	225
	0107	WAKW	93.3 OH	Cincinnati g, o/unID	121
	0110-0126	WBZT	95.3 OH	Xenia r "i-95"	99
5/23 tr	0113	WNDU	92.9 IN	South Bend r "FM-93" wx	265
GW	0117	WILE	96.7 OH	Cambridge on late w/Reds BB	52
	2100	WCJO	97.7 OH	Jackson r, ID into Earth News	36
	2121	CBCL	93.5 ON	London CBC	250
	2138	WRJA	101.3 IN	Richmond "FM-101"	136
	2224	WMHE	92.5 OH	Toledo rp (ex-ra)	168
5/28 tr	0007-0230	WPEZ	94.5 PA	Pittsburgh r, WVKO off	137
	0013	WOLK	96.1 IN	Richmond k, WBES QM	136
	0052-0110	CJOM	88.7 ON	Windsor rjk	200
GW	0102	WMRT	88.3 OH	Marietta s/off	42
	0155	WCSU	88.9 OH	Wilberforce	99
	0200	WATF	88.3 OH	Cincinnati r	121
	0215	WLQA	98.5 OH	Cincinnati m	121
tr	0236-0455	WKIS	99.5 IN	Greenfield rs "Kiss-99"	210
	0250	WSHH	99.7 PA	Pittsburgh m, WEMZ off	137
	0455-0500	WMET	97.3 IN	Fort Wayne m	190

Not having the call change in my atlas, hearing "Kiss-99" ID's on 99.5 had me hanging on for hours as there's a KISS in San Antonio on 99.5. Looking up other SAT stations had WOAI on 97.3 w/m, so my hopes were doubled when I heard a on 97.3. Then within five minutes, my three hours of listening gave two disappointing ID's. However, new to my log. Call to KISS unanswered. At least I didn't have school that day. I'm working part time at WLGW 98.3. Send reception reports to me at P.O. Box 429, Logan, OH 43138. Paul Mount

Michael L. Hogan - 13910 Chippewa Ave. Apt. 1 - Burnham, IL 60633

5/22 Es WMCU 89.7 FL Miami

Total stations heard is currently 241. 53 of those on the sd. band, TPU-19 73, Mike

Jim Alexander - 4 Brook Court - Parsippany, NJ 07054

Equipment: Heath AR-15 receiver, two Radio Shack 6-element FM antennas at 25'

5/22 tr	0600	WESR	103.3 VA	Tasley (250)	5/30 Es	2004	WHPF	92.1 AL	Fairhope
Es	1920	WJNS	92.1 MS	Yazoo City		2036	WPAP	92.5 FL	Panama City
	1930	WGFC	93.3 MS	Houston	5/31 tr	2000	WCTY	92.1 PA	Palmyra (125)
	1949	KLID	93.1 LA	Alexandria	6/2 tr	2000	WFOG	92.9 VA	Suffolk (305)
	2000	WJST	92.5 MS	Forest		2130	WSEL	106.5 NC	Bridgeton(420)
	2025	WERE	92.1 AL	Hamilton		2330	WTRN	93.3 NC	Wash. (390)
	2100	KVCL	92.1 LA	winfield	6/3 tr	0021	WNGT	107.7 NC	Greenville
5/30 Es	1946	WLTJ	92.3 AL	Montgomery		0242	WYYF	96.1 NC	Raleigh (405)
	1958	WZGC	92.9 GA	Atlanta		0300	WRAL	101.5 NC	Raleigh (405)
	2000	WBLX	92.9 AL	Mobile					

E-skip was good in late May but has dropped off considerably since-it's been very slow for early June. Making up for the lack of E-skip in June was the excellent tropo opening of June 2/3, which brought new stations from both coastal and inland North Carolina. The coastal NC stations logged all had good signals at nearly 400 miles. 73 and good DX, Jim

Richard E. Wood, Ph.D. - 1943 Carolina Lane - Cape Girardeau, MO 63701
 Equipment: Heathkit AJ-15, aligned and modified by ex-WFFDAer Andy Bolin; CADCO FM amplifier; two Channel Master Stereo Probe 9s atop a CDE rotor, horizontally stacked at 35 feet. CST/CDT used.

4/12	tr	2230	KQIT	93.1	LA Alexandria live r, "93-QIT FM"	450
5/2	Es	1848	XEDA	90.5	DF Mexico m	1375
		1858	XEBS	89.7	DF Mexico c "El Sonido de los Clasicos," change format in FM Atlas, still mono	1375
		1901	4HM	88.9	DF Mexico full ID, live	1375
5/6	tr	1100	PERA	90.1	TX Dallas-Ft. worth Jewish Music Hall, 1st TX	510
		2000	WLRN	89.3	AL Huntsville German pgm., presumably for German scientists there	250
		2300	KWJS	94.9	TX Arlington UPI nx, mono	510
		2300	KXYA	95.7	AR Little Rock nx	220
		2305	KGUP	89.3	MO Kansas City state nx	300
5/13	tr	1805	KCKN	94.1	KS Kansas City m\$, 1st KS here	300
5/17	tr	0725	WAZY	96.5	IN Lafayette state nx	260
5/18	Es	0956	WAGY	93.1	ME Portland m, auto sounding but not per QSL	1105
		0959	WZZF	92.9	VT Burlington m, QSL	975
		1000	WHNV	95.3	VT White River Junction (tx: NH) Ai nx, QSL	1000
		1003	CIEL	98.5	PQ Longueuil-St. Lambert chansons	1010
		1010	WHEB	100.3	NH Portsmouth r, "FM-100"	1080
		1011	CITE-1	102.7	PQ Sherbrooke chansons	1080
		1012	WXLQ	103.7	NH Berlin "XLQ", local ads, QSL	1075
		1014	CFDM	104.3	PQ Drummondville c	1105
		1015	CBVE	104.7	PQ Quebec EE political discussion, mono	1165
		1022	CKO-FM1	106.9	ON Ottawa EE political comment, travel	920
		1025	CHZZ	106.1	ON Ottawa (tx: Camp Fortune PQ), live DJ, QSL	920
		1040	CFLY	98.3	ON Kingston local ads, note new calls (ex-CKLC- FM), QSL as most distant FM report.	900
		1050	CJBC-20	96.5	ON Penetanguishene FF, talk, mono	725
		1100	CBV	95.3	PQ Quebec \$, informations de Radio-Canada	1165
5/22	Es	1118	WLVH	93.7	CT Hartford state nx in SS	950
		1648	WBYF	92.1	FL Macclenny \$, local ads, nx	860
		1650	WNE	90.5	NC Kinston "Star Ward" type IS, nx, s/off 1658	770
		1658	WPOS	90.5	VA Chesapeake s/off 1700, QSL as 1st report outside local area.	810
		1700	WFOG	92.9	VA Suffolk-Norfolk m, ment. Tidewater	800
		1706	WFOR	98.3	NC Murfreesboro m, local wx	805
		1717	WCHS	100.5	VA Norfolk r, wx, QSL	810
		1800	WVCU	89.7	FL Miami played wrong tape and in QSL said my report had pointed out error; was most distant.	960
		1805	WCMQ	92.1	FL Hialeah Cuban mx, \$, SS DJ	960
		1813	WNYK	93.7	NC Elizabeth City noisy r\$	810
		1827	WKES	95.7	VA Norfolk "WK-Easy"	810
		1849	WYCS	91.5	VA Yorktown student DJ, PSAs, bumblng nx, mono	800
		1852	WPGT	90.1	NC Roanoke Rapids g mono, QSL-most distant rpt.	785
		1858	WAFG	90.3	FL Ft. Lauderdale semi-c, ID, nx	950
		1944	WHRO	89.5	VA Norfolk c\$	810
		2005	WDYL	92.1	VA Chester g, Richmond address	760
		2030	WTVR	98.1	VA Richmond m, "FM-98," nx	760
5/23	Es	2100	WTMI	93.1	FL Miami c, QSL-trans. on Palm Beaches at 102.3	960
		2008	KFAH	92.1	NE Alliance m "S-92" local ads, MDT t/c	685
		2015	KHOW	95.7	CO Denver m, local ad, PSA, QSL	860
		2215	KBYU	88.9	UT Provo c	1265
		2220	KUER	90.1	UT Salt Lake City j, student DJ, QSL as only distant report in recent years.	1275
5/28	tr	0800	WUBE	105.1	OH Cincinnati k, live DJ, 1st OH here	290
	Es	1957	KJOK	93.1	AZ Yuma rx, ann-// MW KVOY	1450
		2050	KMCR	91.5	AZ Phoenix \$, theatre, ballet, ID	1270
		2100	KXTC	92.3	AZ Glendale-Phoenix rx\$	1270
6/1	Es	1130	KRAI	93.1	CO Craig k\$, nx	995
		1138	KQSW	96.5	WY Rock Springs ID for MW KKKK	1090
		1148	KSID	95.3	NE Sidney mono, public service interview	775
		1153	KDLY	97.5	WY Lander k\$	1080
		1157	KERM	98.5	WY Torrington auto k, ads for Scottshluff, NE	850
		1211	KTAK	93.5	WY Riverton auto m, "FM-\$"	1075
		1222	KFBQ	97.9	WY Cheyenne m\$, local ads	870
		1231	KRCS	93.1	SD Sturgis-Rapid City auto m\$	875

6/1	Es	1234	KFYR	92.9 ND	Bismarck \$, "Y-93" wx	860
		1257	KOLY	99.5 SD	Hobridge wx, live DJ greeting Es listeners in Nashville, TN	790
		1300	KSJH	93.3 ND	Jamestown \$, nx, wx, o/semi-local WKYQ	790
		1315	RIVE	96.5 MT	Glendive "\$-96", local ads	1025
		1320	KCGM	95.7 MT	Scobey \$, nx by Ole Olson	1100
		1337	KOLL	93.5 WI	Gillette \$, wx, Cosell sports	960
		1340	KROE	94.9 WI	Sheridan r\$, "FM-94"	1040
		1354	CBKF	97.7 SA	Regina mono, informations des Prairies, o/KSTG	1170
		1358	CBWV	97.9 MB	Brandon mono, ID as "CBC Radio in Manitoba"	990
		2130	KFLG	92.9 AZ	Flagstaff \$, "\$92.9"	1240
		2142	KTOB	89.7 NH	Ramah mono, live folky show: prize day at local grade school	1060
6/4	tr	0738	WBQM	91.7 AL	Decatur g, wx	250
5/5	Es	1043	KXQK	91.3 DF	Mexico ads	1373
		1045	KHFO	92.1 DF	Mexico r, mono	1375
		1047	KEES	89.7 DF	Mexico c, Many IDs as Estersomil, call, freq.	1375
		1048	KEUN	96.1 DF	Mexico c\$	1375
		1055	KXSH	95.3 DF	Mexico PSAs, mixed	1375
		1056	KXQK	94.3 TX	Tampico local ads	1150
		1233	KXHS	92.1 TX	Alice local nx, wx, 1st TX by Es	800
		1330	KAMA	93.1 TX	El Paso \$, network nx in SS	1050

To reintroduce myself, I am the former editor of "FM South" in VUD and have DXed most bands since 1957. I am a native of Dundee, Scotland and am Associate Professor of Applied Linguistics at Southeast Missouri State University, Cape Girardeau. Until Jan. I lived in New Hampshire, which was a better location for SWBC but I think this is a superior one for FM and TV. Thanks to WFFDAer Michael Hollis for helping build the stacked array with which these were caught; the 2 x 4 cross-bar, reinforced with flanged metal and center plates top and bottom, was the fourth tried after three others of plastic pipe or 1 x 4 were found too weak; the two SPAs are held parallel with rope. Almost all the above were reported, and initial QSLs have been prompt and enthusiastic. Will attend ANARC in Minneapolis later this month and display a table with my publications, QSLs and souvenirs.

 Dave Hascall - 211 N. Merrill - Fortville, IN 46040
 Equipment: Caperhart Stereo RX (asterisked*), Portable w/whip.

12/29	tr	1005*	WDAO	107.7 OH Dayton	"Disco 10-77"	4/8	tr	0133	WTUE	104.7 OH Dayton	
1030*	WTHI	99.9 IN Terre Haute	\$			0158	WTFQ	103.9 IN Crawfordsville	m		
1/26	tr	2300*	WILL	90.9 IL Urbana	j\$	4/9	tr	2200*	WAUS	90.7 MI Berrien Springs	
1/29	tr					4/10	tr	2205	WTOL	90.5 KY Louisville	
1230	WDWS	97.5 IL Champaign	ID			2225	WVUB	91.1 IN Vincennes			
3/30	MS					2229	WVJC	89.1 IL Mt. Carmel	rs		
2345	KCFM	93.7 MO St. Louis	in for five			2230	WFPL	89.3 KY Louisville			
sec.		"...degrees at CFM..."	darn! State #8			5/3	tr				
4/7	tr					2201	WISU	89.7 IN Terre Haute	c		
1225	WPPR	102.7 IN Terre Haute	ID			2215	WVWW	106.7 MI Detroit	"W-4" ID		
1750*	WHIC	99.1 OH Dayton	m\$			6/1	Es	(My first FM Est)			
1800	WCRD	100.1 IN Bluffton				1240*	KILO	93.5 CO Colo. Springs	\$		
		"Music for Wells County"				1245*	KTGO	98.5 CO Denver	r\$		
4/8	tr					1255*	KTCL	93.3 CO Ft. Collins	rs\$		
0033	WTUC	98.3 IN Winchester	ad			1310	KICS	93.5 NE Hastings			
0047	WQWV	103.5 OH Hamilton	wretching rs								

 Robert S. Ross, VE3JFC - Box 4373, Stn. C - London, ON
 Equipment: Panasonic R-1114, Marantz 2226B w/rabbit ears

6/24	tr	0334	WTWR	92.3 MI	Detroit	6/29	tr	0248	WLBS	102.7 MI	Mt. Clemens
		2345	CJBC	99.3 ON	London			0254	WPOS	102.3 ON	Holland
		2347	CBBL	100.5 ON	London			0320	WKQC	98.1 MI	Saginaw
9	tr	0235	WTAB	102.9 MI	Ann Arbor	6/30	tr	0302	WQXR	101.5 OH	Toledo

All stations logged this time are new or relogs of stations with call changes.

Fred Koruquist - 7945 Boxford Rd. - Clay, NY 13041

Equipment: Heathkit EX NJ-15, with JF LPL 10A FM Antenna at 45 feet less several elements lost in 70 mph wind storm.

5/20	tr	2200	CBOF-6	98.1	ON Cornwall FFC EE ID "CBOF"	150
		2205	CBOC	95.5	ON Cornwall ID/EE o/u GJBC Kingston relay	150
5/22	Es	1905	WKES	94.9	AL Mobile k\$ TC	1090
		1917	WGUF	96.7	MS Gulfport r, local ad	1040
		1921	WTAM	102.3	MS Gulfport r, ID	1040
		1924	WNOE	101.1	LA New Orleans "8-101" local ad	1190
		1938	WYLD	98.5	LA New Orleans 3, ID, navy ad	1190
		1943	WZAB	97.1	LA New Orleans "Disco-97"	1190
		1959	WRLL	103.3	AL Montgomery m ID	935
		2116	WBJC	107.5	MS Magee k\$, TC, PSA, local ads	1015
		2119	WHD	107.1	LA Hammond r, 8:19 TC, ID	1175
		2130	WXEL	105.3	LA Slidell r\$, "X-105"	1165
		2131	KHOM	100.1	LA Lucma r\$, wx, ID	1240
		2145	WFFF	96.7	MS Columbia SID, PSA, local ad	1115
5/30	Es	1946	WTUF	107.1	GA Thomasville r, ID	970
		1947	WOWD	103.1	FL Tallahassee local ad, talk program	1000
		2015	WVPR	92.1	FL Venice o/local WSEN1, o/off antenna	1170
		2038	WTAN	95.7	FL Clearwater r\$, (home of Mike Dalton)	1110
		2056	WRCC	103.9	FL Cape Coral promo for late nite talk show	1195
					73 - Fred	

Eric Fader - 23-55 Bell Blvd. - Bayside, NY 11360

Equipment: Concord CR-260 receiver, EIC FM-8 Beam Box

4/24	tr				5/22	Es		
1700	wLNG	92.1	MI Sag Harbor	80	1919	KDBH	97.7	LA Natchitoches 1255
1705	wBBH	95.3	NY Southampton (ex-WWRJ)	75	1928	KMAR	95.9	LA winnsboro 1170
5/13	tr				1932	KTRY	94.3	LA Bastrop 1150
1240	WDAC	94.5	PA Lancaster	135	1935	WQNZ	95.1	MS Natchez 1190
1308	wGCB	96.1	PA Red Lion	150	1946	WJNS	92.1	MS Yazoo City 1090
5/22	Es				1953	KJNA	99.3	LA Jena 1220
1911	KVCL	92.1	LA winnfield	1225	5/30	Es		
1915	wVCL	96.7	LA Oak Grove (ex-KDDI)	1125	1930-2100			MUF below 91.1, no IDs.

Ralph Strobel - 2510 E. McGalliard Rd. - Muncie, IN 47303

Equipment: Heathkit AJ-1510, Winegard antenna w/rotor at 60 ft.

4/11	tr	0100	WYMS	88.9	WI Milwaukee s/off, WBNB off	210
4/22	tr	2200	GJBC	99.3	ON London m mono, FF, hockey	275
		2300	GBCL	93.5	ON London c mono	275
5/3	tr	2200	CKOT	101.3	ON Tillsonburg m\$, "\$-101" o/WRIA	280
5/6	tr	0330	WWWM	105.7	OH Cleveland "M-105" o/WTLC/WOOD	210
5/7	tr	0030	WKTA	106.9	TN McKenzie k\$, o/WVEZ, WMRI off	360
	Es	0143	KVIL	103.7	TX Highland Park-Dallas-Ft. worth r\$	850
	Es	0208	KTXR	101.5	MO Springfield m\$, wx, "FM-101"	490
	Es	0241	KMEZ	100.3	TX Dallas m\$, "EZ-100"	850
		0300	KOFM	104.1	OK Oklahoma City r\$	775
		0332	KRMD	101.1	LA Shreveport k\$	740
	tr	0345	WZEN	100.3	IL Alton r\$, "\$-disco-100" (ex-WOKZ)	290
		0400	WWWK	106.5	IL Granite City-St. Louis MO r\$, (ex-WGNO)	290
5/21	tr	0300	ALBS	102.7	MI Mt. Clemens r\$, (ex-WBRs)	220
6/1	Es	1010	KILO	93.9	CO Colorado Springs r\$, "Kilo-94"	1040
		1020	KSPZ	92.9	CO Colorado Springs r\$, "2-93"	1040
		1025	KLYT	88.3	NM Albuquerque r\$	1250
		1145	KRWM	92.9	NM Farmington m\$	1300
		1210	KPLV	98.9	CO Pueblo r\$, "Love-99"	1040
		1212	KYTX	98.7	TX Amarillo "KY-99"	1000
		1222	KAVI	95.9	CO Rocky Ford r mono	1025
		1232	KYWR	99.9	CO Pueblo m\$	1040
		1235	KGNU	88.5	CO Boulder j\$	1075
		1250	KMJD	91.7	CO Castle Rock mono	1050

6/1	as	1256	KTCL	93.3	CO	Ft. Collins	3	1050
		1300	KWBI	91.1	CO	Morrison-Denver	"8-91" nx (2nd Es)	1070
		1301	KLCC	92.5	CO	Greeley	m3	1050
		1302	KPKZ	96.1	CO	Greeley	m3 o/WQLK	1050
		1312	KLN	97.1	NE	North Platte	r3	840
		1325	KLB	94.1	NE	Scottsbluff	nx	990
6/2	tr	0700	KCRF	103.3	OH	Cleveland	g3, "FM-103"	210
		0712	CEL	94.1	ON	Toronto	"CBC-5" nx	375
		0934	SH	95.5	TN	Nashville	r3, "SH-95" o/JFMS	300
		0940	WKDF	103.3	TN	Nashville	pr3, "KDF" o/WXTZ	300
6/6	tr	0710	WFCB	94.3	OH	Chillicothe	"8-94" ad, wx	155
		1200	WLPX	97.3	WI	Milwaukee	rp3, "LPX-97-FM" o/WMEF	210

Your new "FM North" editor is an Assistant Professor of Musical Performance, School of Music, Ball State University, where I teach oboe and English horn, as well as courses in all woodwind instruments. I am principal oboist with the Muncie, Richmond, and Marion, IN Symphonies. Therefore, I keep very busy. DXing here has worsened, since many FM stations in this area are now on the air 24 hours. Semi-locals are very strong, making DXing more difficult. I have searched day and night for more skip, but so far, no luck. Thank you all for the great reports!

73, Ralph

TECHNICAL TOPICS (continued from page 9)

July 1979

Q: 'I have a programmable PSB scanner and am purchasing a VHF low/high and UHF ground plane antenna. I will be using this set up for PSB DXing. I was told to use RG-58U coax cable, but I hear RG-8U would be much better. What about using TV coax such as RG-59U? Wouldn't it work just as well?"

A: First of all, forget about using RG-59U for PSB DXing with a scanner; the majority of scanners on the market are designed for 50 ohm antenna inputs with Motorola-type plugs, and RG-59U is designed for use with 75 ohm equipment. While you might be able to adapt RG-59U to plug into your scanner's antenna input, there still would be an impedance mismatch. Although some might even argue that the mismatch wouldn't be too bad, it would not be good for DXing purposes. Since your antenna's impedance is designed to match 50 ohm coax, you should use 50 ohm coax. The most commonly used coax for PSB monitoring set-ups is RG-58U; however, RG-8U would be a better choice from a DXer's standpoint, due to much lower losses. RG-58U has a loss of 3 dB per 100 feet at 50 MHz. Low loss RG-8U has about 1.2 dB loss per 100 feet at the same frequency. On the VHF-high PSB frequencies, RG-58U will have a loss of more than 6 dB per 100'--compared to only slightly more than 2 dB for RG-8U. Losses are much more drastic on UHF, just as they are for TV lead in. On the UHF PSB channels above 470 MHz, losses for 100' of RG-58U are typically 18 dB and greater, compared with only about 5 dB for the same run of RG-8U! Thus, if you want to do some serious PSB DXing at high band VHF and above, you'll need good 50 ohm coax, such as RG-8U. The drawbacks of using RG-8U are that it is expensive (more than twice the price of an equivalent length of RG-58U) and requires an adapter to allow it to be plugged in to the scanner. However, if you're looking for DX on the PSB frequencies, the lower loss of RG-8U coax is well worth the price, especially if there's a long run of coax between your scanner and antenna. With RG-58U, you could easily lose any advantage that your antenna height gives you in DXing the higher bands.

MORE ON AVIATION BAND SCANNERS...In the May TECHNICAL TOPICS, we mention the new Reency "Digital Light Scan" programmable scanner for 108-136 MHz DX. It should be noted that the new Bearcat 220 scanner also tunes the 108-136 MHz band, as well as all the regular 233 bands, and it's similar to their famous Bearcat 210 model.

DX IMPROVES REMARKABLY BUT STILL BELOW PAR

This year's Es season finally got on track for many DXers during May after a nearly blank April. One relative newcomer was calling it a "blast", but for most others the May DX, especially Es wise, was a bomb since conditions remained below normal and in one case, at least, even more so than at the same time last year.

May's activity peaked around the 21 to 23rd. Several good Es openings and some Gulf tr were highlighted. Most tr stayed in the 300 to 600 mile range. Es was not real impressive since few loggings over 100 Mhz were made, but early June reports indicate the MUF has definitely been up to 107.9 Mhz.

To top things out, an aurora logging made in Arkansas may raise a few eyebrows. Now on to the reports.

Neil Dickerson, 426 State St., Sharptown, MD 21861

Equipment: Panasonic Technics SA-5570, two Channelmaster ants. stacked at 50 ft., rotatable. Now underlined.

1/27 tr		5/22 Es	
2010 WNSP 94.9 PA Harrisburg	150	1930 WTBG 95.3 TN Brownsville, g	790
2230 WMD 104.7 MD Hagerstown	130	1930 KSSN 95.7 AR Little Rock, k	985
2/4		1932 KSCS 96.3 TX Ft. Worth, k	1300
0030 WTJU 91.3 VA Charlottesville	100	1935 KWAM 101.1 TN Memphis, g	855
0100 WAGC 89.9 MD Arnold	60	1940 KKYK 103.7 AR Little Rock	985
5/16		1945 WMBL 105.3 LA Slidell	1000
2000 WUOT 91.9 TN Knoxville	460	1945 KLFJ 105.1 TX Lufkin	1200
2100 WZGC 92.9 GA Atlanta, "Z-93"	600	1950 KQLE 102.9 TX Houston, K-Q	1275
5/18		1955 KFXI 100.7 TX Mt. Pleasant	1170
1900 WBSV 92.1 NC Rocky Mt.	225	2000 KRAL 98.1 TX Texarkana	1100
5/22 Es		2000 KWTX 97.5 TX Waco	1300
1740 KSNS 96.1 LA Lake Charles, "\$96"	1175	2025 KALO 95.1 TX Beaumont, "K-Lc-95"	1225
1745 KKGK 92.1 AR Fayetteville	1050	2030 WNCJ 90.1 MS Senatobia	850
1750 WJNS 92.1 MS Yazoo City	930	2050 KFUO 99.1 MO Clayton	800
1800 KSPJ 95.5 TX Diboll	1225	2100 KDQR 92.7 AR De Queen, FK 93"	1190
1800 KAMA 93.1 TX El Paso	1800	2107 KPFT 90.1 TX Houston	1275
1805 KQTD 93.1 LA Alexandria	1085	2120 KFLN 90.7 TX Plains	1590
1805 KTYL 93.1 TX Tyler	1210	2130 KTCS 99.9 AR Ft. Smith	1075
1810 KOTN 92.3 AR Pine Bluff	975	2145 KYKR 93.3 TX Port Arthur, Kicker rad.	1225
1815 KTEF 88.5 TX El Paso	1800	2150 KRLY 93.7 TX Houston, Disco 94	1275
1830 KETR 88.9 TX Commerce	1200	2200 KLRK 90.5 AR Little Rock	985
1830 KGBI 89.3 TX Dallas	1250	2215 KTKK 95.7 TX Houston	1275
1845 KADL 94.9 AR Pine Bluff	975	5/25 Es	
1855 KMRC 96.7 LA Morgan	1110	1400 CMQ 87.5 Havana Cuba	1300
1900 KLAZ 98.5 AR Little Rock	985	1430 WFYN 92.5 FL Key West	1100
1900 WMD 99.7 TN Memphis	855	1500 WAFG 90.3 FL Ft. Lauderdale, g	950
1910 KFYJ 97.1 TX Ft. Worth	1300	1530 88.3 Cuban Ticker, very low mod.	
1920 WKBJ 92.3 TN Milan	810	5/26 Es	
1926 WCKW 92.3 LA La Blace, Rd. Parish Rad.		1500 CMQ 90.5 Havana Cuba	1300
		1545 WFYN 92.5 FL Key West	1100

Pat-Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - Feb 1 - June 5, 1979 CST used

Equipment: Halli Crafters SX-62 with International Crystal model SAX-1 preamplifier(s); 6-al Archer FM ant. at 20 ft. with rotor. new underlined, t-tentative

5/3 Es		5/19 Es	
0959 WPNE 89.3 WI Green Bay	1190	1055 KSUB 92.5 UT Cedar City, k, ID	1005
1000 WHA t 88.7 WI Madison	1065	1110 f/outs	
1025 f/outs		5/20 Es	
5/11 Es		1706 WMEV 93.9 VA Marion, town ID	1100
1610 WPMET 89.3 WI Green Bay	1190	1710 MUF 99.3	
WHA t 88.7 WI Madison	1065	1732 WXNG 92.5 NC Henderson, ad	1255
1620 MUF to 94.7		1737 WEDR 96.9 NC Goldsboro, ad	1260
1622 f/outs		1755 WRQK 98.7 NC Greensboro, ad	1175
5/19 Es		1820 f/outs (spotty after 1800	
0959 KXIZ 94.1 NV Henderson, ad	1040	1900-1920 unids to 98.5	
1000 KLLAT 95.5 NV Henderson, g		5/22 tr	
1008 KJJC 98.5 NV Las Vegas, psa	1050	0832 KQUL 95.9 TX Port Lavaca, ID	135
KENO 92.3 NV Las Vegas, ID			
1014-40 null			
1050 KDXU 93.5 UT St. George, m	1005		

cont.

5/22 Es	
0838 WTOct 94.1 CA Savannah, k	1050
0840 WBIU 98.7 SC Beaufort, ID	1075
0846 WWWZ 93.5 SC Summerville, ID	1110
0901 WRAS 88.5 CA Atlanta, ID	880
0910 f/out	
1940 WVPV 94.5 VA Richmond, ad	1325
1943 WSEET 93.1 NC Winston-Salem, Z-93	1150
1945 WQDR 94.7 NC Raleigh, ID	1230
1947 MUF 97.9	
1959 WEQR 96.9 NC Goldsboro, ID	1260
2003 WRNS 95.1 NC Kinston, ID, k	1275
2018 WHPet 95.5 NC High Point, g	1160
5/23 Es	
1201 KRAIt 93.7 CO Craig	910
1205 KGSW 96.5 WY Rock Springs	1025
1220 KNES 94.1 NE Scottsbluff, psa	900
1227 KSID 95.3 NE Sidney, twon ID	845
1230-1255 lull	
1259 KKHJ 93.9 SD Rapid City, ID	1040
1305 f/out	
1458 WKUt 88.9 KY Richmond, KY psa's	995
1621 WESC 92.5 SC Greenville, ad, k	
1629 WFRY 88.9 SC Rock Hill, net ID	1085
1642 WOAYt 94.1 WY Oak Hill, promo	
1649 MUF 99.1 then lull to 1710	
1713 WHFI 94.1 MI Jackson, ads	1180
1730 f/out(unIDe 88-90)	
2254 KUSDt 89.7 SD Vermillion, j	920
5/22 Es	
2050 KPSTd 94.1 CA San Diego, c	1120
KYYIt 96.5 CA San Diego, m	
KTFMt 98.1 CA San Diego	
2055 f/out	
5/28 Es	
1758 KZEZt 93.5 UT St. George, m	1005
1759 KSUB 92.5 UT Cedar City, k, ID	1005
1835 KENOt 92.3 NV Las Vegas	1050
1837 KALL 94.1 UT Salt Lake City, ads	1080
KOPK 98.7 UT Salt Lake City, r	
1845 KUER 90.1 UT Salt Lake City	
1910 KNIS 94.7 NV Carson City, wx, r	1370
1930-1950 lull	
1957 KZAN 97.9 UT Ogden, ID, k	1100
1959 KBYU 88.9 UT Provo, c, ID	1045
2001 KWHO 93.3 UT Salt Lake City, ID	1080

5/29 Es	
0994 KSDZ 95.5 NE Gordon, ID	940
1000 KVSF 97.9 SD Rapid City, ID, g	1040
1010 KKHJ 93.9 SD Rapid City, ID, r	
1016 KSID 95.3 NE Sidney, wx	845
1031 KOLL 93.5 WY Gillette, ID	1090
1040 f/out	
1113 KBYIt 88.9 UT Provo	1045
KALLt 94.1 UT Salt Lake City, m	1080
1116 KWHO 93.3 UT Salt Lake City, r, ID	
1131 KNIS 94.7 NV Carson City, ID	1370
1140 KCPXt 98.7 UT Salt Lake City	1080
1142 KIYA 93.3 MT Billings, ad, Y-93	1245
1150 f/out	
5/31 Es	
2102 KWHOt 93.3 UT Salt Lake City, r	1080
2113 KSUB 92.5 UT Cedar City, k, ID	1005
2115 KBYUt 88.9 UT Provo, drama	1045
2123 KENO 92.3 NV Las Vegas, ID	1050
2124 KUER 90.1 UT Salt Lake City, ID	1080
2125 KRRBt 94.9 UT Cedar City	1005
KITZt 94.1 NV Henderson, m	1040
2127 KZANt 97.9 UT Ogden, k	1100
2130 KZEZt 93.5 UT St. George, m, ID	1005
KILLt 95.5 NV Henderson, g	1040
2132 KLUOt 98.5 NV Las Vegas, r	1050
2212 KFACT 92.3 CA Los Angeles, c	1190
lull to 2235 then 92.5 and soon f/out	
6/1 Es	
1025 KFJMt 89.3 ND Grand Forks	1240
1050 KYTNt 94.7 ND Grand Forks, m	
1126 KEYA 88.5 ND Belcourt, psa	1335
1135 f/out	
1250 KOSMt 88.5 CA Northridge	1210
KPGSt 89.3 CA Pasadena, lull to 1315	1185
1317 KPBSst 89.5 CA San Diego	1120
KYXY 96.5 CA San Diego, area ad	
1320 KEGRt 93.3 CA El Cajon, g	1100
KWXYt 98.5 CA Cathedral City, m	1080
1328 KPST 94.1 CA San Diego, local ad	1120
1330 KZLA 93.9 CA Los Angeles, r, ID	1190
KILLt 95.5 NV Henderson, g	1040
1335 KJOIt 98.7 CA Los Angeles, m	1190
KNACt 105.5 CA Long Beach	1180
2018 KVBSt 97.9 SD Rapid City, g	1040
2024 KKHJ 93.9 SD Rapid City, wx	1040
2035 f/out	

A rather sluggish FM Es season in May. MUF's not going very far into the FM band when they do get there. Only got thru 100 MHz once during the month (vs. 5 such openings last May). Also, the time open down some 34% from last May (620 min. vs 940 min.).

Vernon Eaton, 82-Springhill Acres, Benton, AR 72015 501-375-0143

My job took me out of DXing all of March and most of April. Starting with May, I got back into it good, finding a nice Gulf Tropo opening from SE to SW on 5/6 which lasted into the night and faded out. And then 30 hours later one of the most exciting things happened in my short 18 months of DX experience. I caught some good sun-up Tropo (very scarce for me this year) to the west and low and behold in comes KXTX 88.1, Lubbock, TX (585 mi.) perfectly clear and an actual ID within five minutes. My 100th freq. logged. Up to then the only sound I could get on that channel was short meteor burst, never knowing where it came from. The rest of May has been about as bad as I have seen. As of 5/31 it appears to be opening up again as our weather tries to get back to normal.

4/15 tr	
1838 WBBQ 99.9 IL Harrisburg, ID, \$	225
4/24 tr	
1845 KIKS 93.3 TX Killeen, ID, \$	350
1900 WRIF 104.1 TN Jackson, ID, \$	250
Aurora:	
2018 WQMC 95.3 VA Charlottesville, ID	800
4/25 tr	
1638 WKTA 106.9 TN McKensie, ID	250
1639 KCY 106.9 TX Conroe, ID	350
1705 KUDI 106.5 TX Jacksonville, ID	275

5/6 tr	
2000 KUHF 88.7 TX Houston, ID, \$	360
2015 KVIT 91.7 TX Dallas, ID, \$	275
2023 KOUL 103.3 TX Sinton, ID, \$	580
2030 KNCN 101.3 TX Sinton, ID	
2037 KZFM 95.5 TX Corpus Christi, ID	600
2050 KQIX 95.5 TX Ft. Worth, \$	285
2125 KOOT 106.5 TX Jacksonville, ID	275
2208 KSUG 88.3 TX Keene	280
2215 WJJC 89.1 IL Mt. Carmel, ID	400
2238 WPCS 89.3 FL Pensacola	475

5/7 tr		5/14 tr	
2015 KMOX 103.3 MO St. Louis, ID	350	1820 WKIR 104.1 TN Jackson	275
2018 KADI 96.3 MO St. Louis		5/20 tr	
5/8 tr		0900 KVLJ 91.3 TX Beaumont, ID	350
0755 KTKT 88.1 TX Lubbock, ID	575	5/23 tr	
(Yipee! My 100th freq. logged after two years trying. It came in very plain and was topped.)		1830 KVTY 91.7 TX Dallas, ID	275
5/8 tr		5/28 tr	
0805 KBID 92.9 TX Wichita Falls, ID, \$		0725 KOSU 91.7 OK Stillwater	275
0817 KPXX 99.5 TX Dallas, \$	275	5/31 tr	
KSCS 96.3 TX Ft. Worth, \$	285	0900 KIRS 92.7 MO Mountain Grove, ID	210
		1945 WJPR 96.3 MS Jackson, ID	275
		1952 KSCS 96.3 TX Ft. Worth	285
		2100 KPJZ 97.1 TX Ft. Worth	285

Randall B. Clark, Rt. 5, Dutch Ridge, Parkersburg, WV 26101 - May 11 to June 2 EDT

Hello! MY HAVE THING'S CHANGED!--Es is finally picked up to what would be termed "1977 levels." Yes I'd have to agree with Mike Dalton's observations about these Es openings coming in cycles--just about the same would go for the "super-trop" openings as well!--very interesting!.....also the comment to Vernon Eaton's report about Es not being affected by the weather is not quite accurate. Some propagation experts believe that Thunderstorms may have SOMETHING to do with Es cloud formation especially with very violent types of thunderstorm activity. (SEE Feb-77 WUD p. 23.) (What I was trying to get across was not to connect Es with the weather going on at the time of the opening. DB)

I recently paid a visit to WTFDA'er Robert Eddy, Newport, OH. Speaking of an antenna farm!--He has an article in the works about his FM rhombic which is a HUGE antenna!!

I hope to see a lot of fellow DXers at this year's WTFDA convention in August. If there are any persons who are interested, I may give a lecture on remotes....STILL interested in hearing from those persons having info on the remotes

HERE'S HOPING THAT SKYLAB WON'T HIT YOU!

Just think of the ionization trail it will leave! Here's your chance for all of you MS fans for some DX via this space Debris.

5/11 tr		5/20 tr	
0143 WNUZ 103.5		1132 WVAQ 101.9 ID's as "Q-102" & "Album-102"	
2135 WCLG 100.1 (like a LOCAL!)		1177 WJER 101.7 OH Dover	
other area northern stns in super!		5/29	
5/18 Es		0949 WSGS 101.5 KY Hazard	
1145-47 unID stn in w/ pledges, etc., gave a WATTS line no. 1-800-662-5797 (WHERE?!?)		5/30	
MUF peaked around 93 Mhz or so. Opening faded from FM by 1215.		Most Columbus, etc. stations in FLUS.....	
		0236 WDFI 94.3 OH Marion, switching tx for unknown reason	

6/1 Es	
1309 KILQ 93.9 CO Colorado Springs (finally a real good Es opening!-ah!)	
MUF shot way up past 100 MHz!! , state No. 17! "Kilo-94"	
1340 KOAQ 103.5 CO Denver, ID as "Q-103"	
1356 KTCL 93.3 CO Ft. Collins.....at 1347-1417 "Lunchtime-Little Theater" with Steve Martin and others & Chevie Chase	
Es out by 1500 EDT, MUF 107.9+! (a real hilarious lunchtime treat indeed!)	
1523 WQMC 104.3 MI Detroit and WELA & others	

6/2 tr
0920 WQRS 105.1 MI Detroit, plus both WQMC, WRIF, WGEL and many, many others!
Apparently we are in the midst of a "Semi-Super trop" duct that is rather intense!
1150 CKLW 93.9 OH Windsor, QSLing!
Throughout the day...WQOD, WSRD, WVUD, WHIO, WIOT, etc
Including WKFI 102.3 (Class A freq.) at 2145 (FHEW!, I got out 10 QSL reports within past week.)
Sunday had remnant's of Saturday's Tr DX. A Patrolman-6 Multi-band used.

John Combs, 2485 Ivan Court, Orlando, FL 32807	May 11 to June 3 EST
5/11 Es	5/16 tr
1830 KERA 90.1 TX Dallas-Ft. Worth	0040 WBEU 98.7 SC Beaufort
(w/pledge drive, had to leave just as MUF reached here, but subsequent check on car rx showed nothing more).	0050 WCLF 104.1 FL Tallahassee
5/16 tr	0105 WEGM 98.9 FL Tallahassee
0030 Savannah FMs	1645 WPTI 95.1 SC Charleston
0030 WFSU 91.5 FL Tallahassee	1645 WXTG 96.9 SC "
Full quieting--I thought WPRK was still on.	1648 WZZL 103.5 SC "
0037 WIGA 95.9 GA Valdosta	1650 WSCI 89.3 SC "
	1654 WKTM 102.5 SC "
	cont.

5/19 tr
 2135 Savannah FMs
 2142 WHEH 106.3 SC Hilton Head Island
 2150 WBRV 98.7 SC Beaufort 290
 5/21 tr
 0717 WPAP 92.5 FL Panama City 270
 0723 WPFM 107.9 FL Panama City
 0725 WML? 101.9 LA New Orleans, Tent.
 0729 KPPT 90.1 TX Houston 855
 0730 KUHF 88.7 TX Houston, s/cn
 0732 KLEF? 94.5 TX Houston, Tent.
 0735 KMLQ? 102.1 TX Clear Lake City, Tent.
 0740 KRLY? 93.7 TX Houston, Tent.
 (92-108 largely blocked by in-state, sub-200 mile semi-locals--the two educationals were near full quieting--HAD to LEAVE at 0745!! Shashot!)

At this point, I have decided to delete all loggings under about 250 miles, new or re-log, unless I deem them particularly outstanding or unusual.

2220 WBLX 92.9 AL Mobile 415
 "Best of the Bay"
 2235 WKRG 99.9 AL Mobile, "G-100"
 2309 WOOF 99.7 AL Dothan 300
 2310 WRLB 96.9 AL Enterprise 325
 2329 WCUF? 96.7 MS Gulfport, Tent.
 2339 WKOG 90.7 FL Panama City 270
 2340 WPAP 92.5 FL Panama City 270
 2400 Dropped FM to concentrate on TV
 5/21 tr
 0628 WTVY 95.5 AL Dothan 300
 0628 WIRB 96.9 AL Enterprise 325
 0629 WQHQ 98.1 AL Andalusia 350
 0630 WAYD? 103.9 AL Omark, Tent.
 0630 WPAP 92.5 FL Panama City 270
 0635 WMTM 93.9 GA Moultrie 245
 0639 WALT 97.1 MS Meridian 510
 0638 WJAD? 97.3 GA Bainbridge, Tent.
 0640 unID 97.7 w/gospel, evangelist
 0641 WSLY? 99.3 AL York, Tent.

(wx forecast, ment. SE MS)

0642 WKRG 99.9 AL Mobile 415
 0644 WDAL 101.3 MS Meridian 510
 0647 WXBW 102.7 FL Milton, Tent.
 0652 WGPC 104.5 GA Albany 245
 0654 WFTY 105.7 MS McComb 565
 0655 WPFM 107.9 FL Panama City 270
 0705 WTSU 90.1 AL Troy 355
 0715 unID 102.7 ?? w/gospel
 0732 WBHM 90.3 AL Birmingham 470
 0733 WFTW 99.9 FL Ft. Walton Beach 330
 0733 WYOK 99.5 AL Birmingham 470
 0738 WOOF 99.7 AL Dothan 300
 0738 WFUN 100.1 AL Selma 435
 (farthest Class A Tropo)

0815 Had to Leave....

1500 WPFL 88.9 FL Winter Park, 10 watts
 (Back on after many months of silence!)

Es:
 1708 WEMY 89.1 MI Ypsilanti 960
 1708 WNMV 90.1 MI Marquette 1315
 1708 WKAR 90.5 MI East Lansing 990
 1710 WTAA 88.3 MI Interlochen 1160
 1711 WUOM 91.7 MI Ann Arbor 960
 1717 WKLF 92.9 MI Cadillac 1130
 1721 WNNC 88.3 WI Menomonee 1185
 1726 WHLA 90.3 WI La Crosse 1170
 1728 WHIM 90.9 WI Wausau 1160
 1730 WGUQ 90.9 OH Cincinnati 740
 1730 WHAD 90.7 WI Delafield 1085
 1735 WJAI 92.9 OH Eaton 790
 1738 WVIC 94.9 MI East Lansing 990

Combs, cont.

5/21 Es
 1740 WHML 95.7 MI Marquette 1315
 1740 WZZR 95.7 MI Grand Rapids 1065
 1740 WBBN 96.1 MI Bay City 1040
 1749 WLAJ 96.9 MI Grand Rapids 1065
 1759 WHEH 95.9 OH Archbold 915
 ("Voice of the Cincinnati Reds")
 1800 WMMJ 97.1 MI Detroit 965
 1802 WCLT 97.7 MI Kalkaska, new on air 1145
 1803 WKQC 98.1 MI Saginaw 1040
 1810 WLRN 103.9 MI Adrian, w/police blotter
 1812 WQMC 104.3 MI Detroit, w/italian 965
 1814 WGER 102.5 MI Bay City 1040
 1815 WPOS 102.3 OH Holland 910
 1818 WLOK 101.5 OH Toledo 920
 1819 WNGO 101.3 OH Ashland 835
 1823 WDRQ 93.1 MI Detroit 965
 1824 WGLW 93.9 OH Windsor 960
 1825 Had to leave once again--BUSY DAY!!
 (WUP at least 105 Mhz--many unIDs and tents too numerous to mention!)

5/28 tr
 0859 WJAD 97.3 GA Bainbridge 240
 0900 WIRB 96.9 AL Enterprise 325
 0903 WTVY 95.5 AL Dothan 300
 0905 WPAP 92.5 FL Panama City 270
 0906 WPFM 107.9 FL Panama City 270
 2133 WFAW 91.1 FL Jacksonville, 930w. 120
 2305 WXBW 102.7 FL Milton 400
 2310 WPFM 107.9 FL Panama City 270
 2314 WAFB? 107.3 FL Pensacola, Tent.
 2315 WBOB 101.5 FL Pensacola 400
 Next four Es:
 2324 KTXR? 88.1 TX Lubbock, Tent.
 2325 KERA 90.1 TX Dallas 965
 2325 KSUC 88.3 TX Keene 985
 2342 KVTI 91.7 TX Dallas 965

More Tr now!

2350 WGGC 90.7 FL Panama City 270
 2359 WTSU 90.1 AL Troy 355
 2359 WRES? 105.7 AL Troy, Tent.

5/29 tr
 0002 WPCS 89.3 FL Pensacola 400
 0003 WNEZ? 91.1 FL Pensacola, Tent.
 More Es:
 0119 unID 91.7 ?? on & off testing w/oc
 0120 KBID? 92.9 TX Wichita Falls, Tent.
 (very confusing day with Es & Tr at same time!)

5/30 Es (another busy opening!)

1924 CJRT 91.1 ON Toronto 1060
 1932 CHAT 93.1 ON Barrie 1095
 1952 WBFO 88.7 NY Buffalo 1005
 (Have they upped power? In solid for two hrs.)
 1955 WBUF 92.9 NY Buffalo 1005
 2007 WGRQ 96.9 NY Buffalo
 2014 WCFM 99.9 ON Toronto 1060
 2015 WDCX 99.5 NY Buffalo 1005
 2035 CPFL 95.9 ON London 1010
 2036 WHLD? 98.5 NY Niagara Falls, c, Tent.
 2039 WMRH 102.9 NY Syracuse 1035
 2043 CEMP 101.5 ON Peterborough 1115
 2045 CKOZ 99.1 ON Toronto 1060
 2045 WHEM 98.9 NY Rochester 1050
 2050 WBCV 97.3 NY Ithaca 990
 2056 WDUQ 90.5 PA Pittsburgh 830
 2130 WCPA 93.5 PA Clearfield 855
 2150--WUP sharp dive to Ch. 4--may have topped 107.9 at one point--for each station
 IDed there were at least 3 or 4 unIDs.

6/1 Es

1100 KSMV 91.1 MO Springfield, wx, ID 895
 (plus many other 88-92 unIDs)

6/2 tr
2030 Charleston FMs 310
6/3 Es
2035 KSUC? 88.3 TX Keene, tent.
2038 KERA? 90.1 TX Dallas, tent.
(plus several 88-92 unids--200-300 mile tropo confusing situation)

2038 KPFT? 90.1 TX Houston, tent.
2038 KIXS 93.3 TX Kileen, local ads 1005
2041 KAMV 90.9 TX College Station, ID 905
2157 KNCI 90.3 IA Sioux City 1330
2210 WOIT? 90.1 IA Ames, tent.

Am I ever having a blast on FM!! I'm only sorry that I didn't get serious about it earlier. It's really a trip to hear those Es loggings coming in with full quieting and stereo!! Lots of Es and some surprising mid-month tropo (which usually doesn't occur to any great degree after May 1st) have kept this a busy month. If things continue as they have been, I predict that this year's peak period will see many hours long openings topping 107.9! So far it looks like the best summer ES here in several years! Log at 203.

Danny Buntin, 1020 S. Duncan, Stillwater, OK 74074 CDT

Equipment: Pioneer TX-9100 tuner, Antennacraft 10 el. ant., 3/4 ft. high, rotorized.

6/8 Es
2042 WPXI 95.1 SC Charleston 1030
"Super 95 Soul"
2058 WKTM 102.5 SC Charleston, ad, ID
(all other Charleston pre-logged freq. in)
2101 WAGG 90.7 GA Augusta 890
2102 WMPR 88.1 SC Sumter
2111 WFJS 106.7 SC Orangeburg 920
2124 WDDM 101.3 SC Sumter

6/8 Es
2133 WSHG 106.3 SC Georgetown, wx
2147 WQDR 94.7 NC Raleigh, ID 1060
2202 WXY 93.5 SC Columbia
2231 WYAK 103.1 SC Surfside Beach, "Yak rx"
2235 WQMB 97.7 SC Georgetown
2238 WORG 103.9 SC Orangeburg
2241 WFOG 97.1 GA Gainesville, "97 Fox" 965
2244 WKRT 98.3 SC Kingstree, ad, ballgame

Es above represents the end of a nearly year long drought of no major dx here. It sure was blessed relief when it came even though the opening wasn't very wild by my standards. The MUF was 107.5 but faltered to the ed. band several times before ending at 2306. Things will have to do a lot more picking up if this June is going to be any better than last year. It's interesting noticing how the more easterly DXers netted the lion's share of the openings while we Westerners fared poorly in comparison.

I don't know yet if I'll make it to the WFFDA convention, but I hope to see a lot of people there if I attend, 73.

Rick Samford, 404 S. McNeill, Burnet, TX 78611 - May 7 to June 7 CDT

Equipment: Kenwood Kr-5400 rx, 10-el. Archer FM at 24 ft. w/Alliance U-100 rotor; Realistic #120665 AM-FM port. used frequently as Es monitor.

5/2 tr
2230 KGFO 98.5 OK Tulsa, ID 390
2237 KTFK 106.9 KS Topeka 585
"Country-107" T-shirt promo, ID

5/8 tr
0022 KCKM 94.1 KS Kansas City, ID 605
0045 KXCV 90.5 MO Maryville, ID 685
r, pgm "Static & Stereo," a name which aptly described the signal here.
0058 KCLI 95.3 OK Clinton, ID 325
0141 KSWT 107.7 KS Topeka, ID 585
0147 KJIL 104.9 OK Bethany, ID, g 325
0157 KWOC 97.5 OK Tulsa, ID 390
0202 KMRJ 96.9 KS Pittsburg, ID 495
0658 KQBC 90.7 MO Joplin, ID 480
0859 KLCG 97.9 OK Poteau, ID 360
0900 KLAZ 98.5 AR Little Rock, ID 445
0900 KSSN 95.7 AR Little Rock
0907 KWOC 106.9 OK Clinton, ID 325
0924 KSEL 93.7 TX Lubbock, ID 290
0939 KXYK 103.7 AR Little Rock, ID
1359 KMAI 99.1 AR Ft. Smith, ID 385
1404 KCCC 89.7 TX Denison, ID 225
2353 KJLS 94.3 OK Okmulgee, s/off 355

5/9 tr
0014 KBIM 94.9 NM Roswell, ID 410
0017 KPER 95.7 NM Hobbs, ID 315
"96 Country"
0050 KTKM 99.9 NM Clovis, ID 380
0124 KBUY 94.1 TX Amarillo, ID, wx
0200 KANU 91.5 KS Lawrence, s/off 585
end of "Jazz in the Night"
0216 KGNC 97.9 TX Amarillo, ID 365
0254 KCKM 94.1 KS Kansas City, ID 605
0300 KXTX 98.7 TX Amarillo, ID, "KY-99"
0859 KWGS 89.5 OK Tulsa, ID 390

0928 KBIM 94.9 NM Roswell, ID
5/18 tr
0900 KGFO 98.5 OK Tulsa, ID 390
0900 KRAV 96.5 OK Tulsa, "FM-96"
5/20 Es
1842 WKNC 88.1 NC Raleigh, wx, ID
1850 WSTS 96.5 NC Laurinburg, ad
1857 WQXI 94.1 GA Skyrna, Atlanta wx, MS prev.
1900 WWHK 89.7 SC Columbia, ID
1902 WATP 94.3 SC Marion, ad, ID

5/21 tr
0117 WRBQ 104.7 FL Tampa 985
"Q-105-FM," wx but no local reference;
nonID again at 0121 and soon gone
0124 WKSJ 94.9 AL Mobile, ID 610
0130 WAJB 107.3 FL Pensacola, ID, wx
0200 WTDX 101.5 FL Pensacola, ID 665

5/23 Es
0910 TGHY 98.6 GU Guatemala
"Radio Mundial," Guatemala mentioned
0920 TGRt 88.8 GU Guatemala, "Radio Fabulosa"
0922 TG77t 88.1 GU Guatemala, "Fabuestereo"
1759 WFDD 88.5 NC Winston-Salem, wx, ID
1800 WBYN 89.7 TN Chattanooga, ID, tr prev.
1800 WDAV 89.9 NC Davidson, ID
1813 WCZY 95.5 MI Detroit, ID, "Cozy"
1815 WNZK 97.9 MI Detroit, ad
1832 WAUP 88.1 OH Akron, wx, ID
1834 WHRC 94.1 OH Canton, ad

5/28 Es
1923 KSUB 92.5 UT Cedar City, ID, k
1925 KBRH 94.9 UT Cedar City, wx
1926 KZEE 93.5 UT St. George
Washington county psa
1958 KSIH 94.9 ID Pocatello, ID
1958 KQSW 96.5 WY Rock Springs, ID

Samford, cont.

5/28 Es
 2000 KID 96.1 ID Idaho Falls, ID, NBC nx
 2000 KVEL 92.7 UT Vernal, ID
 5/29 Es
 1130 KROE 94.9 WY Sheridan, ad
 1148 KOLL 93.5 WY Gillette, ID
 1154 KSUB 92.5 UT Cedar City, ID
 5/31 Es
 2231 KZEZ 93.5 UT St. George, ID
 2233 KSUB 92.5 UT Cedar City, wx
 2236 KILA 95.5 NV Henderson, ID
 2237 KENO 92.3 NV Las Vegas
 2239 KLVG 98.5 NV Las Vegas
 6/1 Es
 2228 KILA 95.5 NV Henderson, ID
 2230 KLVG 98.5 NV Las Vegas, ID
 2235 KORK 97.1 NV Las Vegas, ad, ID
 2241 KXTZ 94.1 NV Henderson, "Ecstasy"
 2241 KENO 92.3 NV Las Vegas
 2258 KFLG 92.9 AZ Flagstaff, ID

6/1 Es
 2301 KSUB 92.5 UT Cedar City, ID
 2308 KANM 89.1 NM Albuquerque, NM State Highway Dept. psa (Albuquerque road work) very short skip, "Disco-89".
 2323 KROQ 106.7 CA Pasadena, "K-Rock wx"
 2327 KMST 105.9 CA Los Angeles, "K-West"
 2330 KQGO 105.1 CA Los Angeles, ID
 2332 KBBY 95.1 CA Ventura, ID
 6/2 Es
 0000 KZZZ 92.7 AZ Kingman, "K Triple-Z"
 6/4 tr
 0918 KVRN 92.1 TX, ad 145
 mono, K, w/TX State News, "Cavern" slogan but no Sp.
 6/5 Es
 1224 WTOG 94.1 GA Savannah, nx promo
 1230 WSTT 94.3 GA Sandersville, ID
 6/7 tr
 1101 KQTE 105.9 OK Hobart, ID 290
 new station on air, r, "KQ-106"

REPORT YOUR FM DX TO THIS COLUMN IF YOU ARE FROM: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, ME, NC, NM, NV, OK, SC, TN, TX, UT, VA, & WV, AND MEXICO

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WANTED - Broadcasting Yearbook 1978 or 1979 only. State condition, asking price. Richard E. Wood, 1943 Carolina Lane, Cape Girardeau MO 63701.

TRADE - Will trade my Southwestern Ontario edition TV GUIDE for your area edition on equal basis. Need 1 of each area only. Ship yours to: Robert S. Ross, Box 4373, Stn. C, London, Ontario N5W 5J2.

FOR SALE - ATARI C-380 color TV game: works on channel 3, good for antenna testing. Also great fun. Pinball type. Needs 6 "C" cells, and a switch box. \$30 shipped UPS. Bob Grant, 5775 Bishop, Detroit, MI 48224. (313) 884-3025.

FOR SALE - 1 YAESU FRG-7 communications receiver in good condition. Price \$300.00. Write: Arthur Williams, Jr., 576 Springtown Rd., New Paltz, NY 12561 or call (914) 658-9467.

Your non-commercial ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK.

EASTERN TV-DX

Robert Kramer
3406 W. Pierce
Chicago, IL 60651

Deadline: 10th

JULY 1979

Although there hasn't been as much as we would like, E-Skip has improved over last year. Already there have been 2 openings into the FM band, one as high as 107 MHz. For the most part these openings have been confined to the South and Southwest, although there are a couple of exceptions. Trop has been virtually nonexistent, with most reports well under 300 miles. This may not be a bad sign; however, as last year was close to the same. Trop didn't open up until late June, but by early July, the results were unbelievable. Hopefully the same will occur again this season.

Ken Simon 513 6th Ave. S., Lake Worth, FL 33460 (EDT)

MAY	22 Es 1345 United 3	23 Es 2000 United 4 ABC
2 Es 1859 XEW or YNTG-2	3/4 CB	2141 United 2
Unided-2	1548 United 2 ABC 1011	Record Ad,
1910 CCI 3	1556 United 3 CBS	McAllen address
1920 Unided-2 R&R	1600 KIII-3 TX 4444	26 2050 WJBK-2 MI 3022
record ad.	1857 Unided 2 CBS	2058 Unided 3 NBC
McAllen Address	Unided 3 NBC	Unided 3 CBC EE
1925 Unided-2	1900 WREC-3 TX 3111	27 1650 Unided SS movie
1929 Unided-2 Canal 2	1903 KTVI-2 MO 2111	XE?
1930 Unided 2	1905 Unided 6 3011	1736 Unided SS movie
4 Tr 1518 WJCL-22 GA	Ill. map	1800 Unided ID SS
5 0647 WJKS-17 FL	"MUF to 107"	"Su Canal dos,
WJCL-22 GA		XE?"
6 1222 WJKS-17 FL	23 Tr 1736 WJCL-22 GA 4555	1836 TGV-3 Guat. 5525
WQJB-20 FL	Es 1939-48 Unided 3 & 4	2027 Unided 2 ABC
11 Es 1336 Unided-3 ABC	1954 KATC-3 LA 4332	1825 WIFM-3 PR 3111
Tr 2119 WQJB-20 FL	2000 KBTX-3 TX 2011	1928 CKVR-3 ON 3124
22 Es 1345 Unided-2 Ed.	KFRG-2 TX 4222	2030 Unided ES Edn ?
	KIII-3 TX 2111	

Jeff Wolf 1131 University Blvd. W. Apt. 701 Silver Spring, MD 20902 (NST)

November 1978	6 Tr 2340 W44AA-44 WV	6 Tr 2205 W60AB-60 WV (86)
1 Tr 0015 WPTF-28 NC T	(XLTR WVVU-24)	Hampshire & Morgan
0057 WCTI-12 NC (269)	2352 WTAP-29 PA	County rural area
0120 WVEC-13 VA (158)	0008 WPHL-17 PA	(WVVU-24 XLTR)
0152 WKEK-8 VA	0013 WXTV-41 NJ (196)	1943 Richmond U's
3 2313 WXTV-41 NJ (196)	0040 WCHC-40 NJ (119)	7 2344 W60AB-60 WV
Fatterson	Wildwood	
4 0015 WNET-12 VA	9 1930 WUAB-43 OH (293)	16 0830 WPTF-28 NC (251)
0133 WPTF-28 NC (251)	Lorain	0900 WVEC-13 VA
0236 WHE-21 PA (90)	2026 W44AA-44 WV	0938 W79AK 72 VA (88)
Harrisburg	0045 WFGH-53 PA (187)	Heathsville
0237 WNET-9 NC (243)	Pittsburgh	(XLTR WCVB-23)
0259 WPIX-11 NY	2300 WFGH-53 PA (187)	W73AS-73 VA (63)
0731 WITF-33 PA	12 0005 WPTF 28 NC (251)	Oak Grove
0810 WPTF-28 NC (251)	0130 WNC-9 NC ?	(XLTR WCVB-23)
0900 WLVT 39 PA (136)	0157 WVEC 13 VA (158)	17 ES 1910 Unided 3 ABC
Allentown	13 ES 2103 Unided PBS	1936 Unided 2 ABC
1927 WXTV-41 NJ	through WMAR	1940 MUF 5
2218 WNJN-50 NJ ?	2144 KNCF-2 NE (1234)	19 1700 Weak CCI 2
WNJB-58 NJ ?	North Platte	1828 Weak CCI 2
5 0010 WVIT 30 CT (283)	2205 Slight CCI 2	20 1754 CCI 2 & 3
New Britain	20 Tr 2215 WPTF-28 NC (251)	1802 MUF 4
0026 WXTV-41 NJ (196)	24 Tr 0800 WPTF-28 NC (251)	1816 CCI 2
0105 WYAH-27 VA	W60AB-60 WV ?	29 1527 Slight CCI 2
0139 WNJN-52 NJ (152)	December	1930 Slight CCI 2
WNJM-50 NJ (195)	5 Tr 2305 WNET-12 VA	30 Tr 0133 WPTF-28 NC (251)
Montclair	6 0715 WTAP-29 PA	0224 WITN-7 NC ?
0224 WPTF-28 NC (251)	0732 WLVT-39 PA ?	0243 WNET-9 NC (243)
0243 WHTY-12 PA	0800 WTVG-68 NJ (192)	0251 WKEK-8 VA
0017 WNET-12 VA	0900 WNJN-50 NJ (195)	0327 WEAR-3 VA
2200 WNET-52 NJ	WNJB-58 NJ (172)	2100 WHRO-15 VA (158)
2244 WXTV-41 NJ	0923 W42AC-42 VA (66)	January 1979
WKBS-48 PA	Front Royal	25 Es 1655 Unided 2
2335 WNJN-58 NJ (172)	(XLTR WPTF-51)	through WMAR
New Brunswick	1000 WITF-33 PA ?	2159 Slight CCI 2

EASTERN TV DX

Jeff Wolf Continued

15 Es 1802 Slight CCI 2

JULY 1977
20 ES 1640 Slight CCI 2

February

11 Es 1916 Slight CCI 2

"On Nov. 3 I started using the Radio Shack "Golden U" twin bow-tie indoor UHF antenna. All of the time, with the antenna, I'm now getting WWPR-31 Hagerstown, MD with a weak and snowy picture, and W41AB-W1 Madison, VA with a fair signal (moderate snow). I get very slight reception of WHAQ-25 Hagerstown, MD and W44AA-44 Martinsburg, WV. My Apt. is 70 feet above ground, which probably helps reception".

Greg Monti 5 Hickory Road Bayville, NY 11709 (EST & EDT)

April	21 Tr 2200 WHYN-40 MA	21 Tr 2217 WLVI-56 MA	14 Tr 2230 Unided 44, Kup's show, WGEH?
	2201 Unided 25 700	2225 WWLP-22 MA	CGI 17 (WPHL & ?)
	Club, prob. WKNE	Unided 57 WGBY?	Es 1929 WCBS-2 almost unwatchable
	2202 Philly U's		WEAR-3 FL
	Hartford U's	14 Tr 2222 Scranton/Wilkes-Barre U's	1930 WDSU-6 LA
	2215 WEDN-53 CT	Hartford U's	Alone, almost snow free.
	Norwich		

Equipment: private home MATV system W/Winegard amp, 3 antennas, Zenith 19" color & B&W.

Steve Grima Box 8322 Erie, PA 16506 (EST/EDT)

March	19 1945 Tr WGMU-14 MI (255)	22 Tr 2000 WKAR-23 MI (230)	17 Tr 1830 WNDU-16 IN (318)
	WUCM-19 MI (221)	WEYI-25 MI (212)	WEYI-25 MI (212)
	WKAR-23 MI (230)	WUHQ 41 MI (274)	WGTE-30 OH (176)
	WUHQ-41 MI (274)	CBLEF5-15 ON (185)	WBGU-57 OH (185)
	WEYI-25 MI (212)	2130 CBLEF-2-34 ON	2350 WHME-46 IN (318)
	Detroit U's (150) excellent	Pentanguishene	2400 WANE-15 IN (265)
		2230 WPNE-38 WI (432)	18 0010 WSBT-22 IN (318)
	2000 WJBK-2 MI (150)	April	WPTA-21 IN (265)
	WXYZ-7 MI (150)	22 Tr 1815 CBET 9 ON (145)	0015 WSJV-28 IN (300)
	WTOL-11 OH (175)	WILX-10 MI (221)	22 Es 2000 WRBL-3 CA
	2130 WNDU 16 IN (318)	1830 WANE-15 IN (265)	Columbus
	WANE-15 IN (265)	WNDU-16 IN (318)	2015 WCTV-6 CA
	WSBT-22 IN (318)	WGTE-30 OH (176)	2020 WDIQ-2 AL (815)
	2145 WILX-10 MI (221)	WNUC-44 OH (163)	Dodier
	2200 WPTA-21 IN (265)	WDSU-34 OH (212)	2025 WKRG-5 AL
	WGTE-30 OH (176)		Mobile
	WFPT-55 IN (265)	10 Es 1940 KTHS-3 LA (1005)	2100 WEAR-3 FL (912)
	22 2000 WNDU-16 IN (318)	Shreveport	2300 WPBT-2 FL (1098)
		2030 WPBT-2 FL (1130)	

WUF was up to ch.6 for a while (5/22, ed.), but CKGN made IDs tough. Didn't get one positive ID on Ch. 4, but something may show up in CCI."

Harry J. Hayes 9 Henry St. Wilkes-Barre, PA 18702 (EST & EDT)

March	4 Tr 1150 WENH-11 NH	10 Es 2345 WBRZ-2 LA	22 Es 1658 WDIQ-2 AL
	WUUR-9 NH T	12 2100 WBRZ-2 LA	1715 WEAR-3 FL
	Manchester	through WCBS	1730 WKRG-5 AL
		2200 KETS-2 AR	1735 WDSU-6 LA
May	10 Es 2000 WPBT-2 FL	15 2030 WDIQ-2 AL	2015 WPBT-2 FL
	2100 WEAR-3 FL	WESH-2 FL	2200 WRAA-2 MS
	WDIQ-2 AL	18 1250-1530 Strong 2-5 opening to Dakotas per Glenn Jacobs	

"This year's E skip season seems to be going the route of 1978's poor conditions. With the exception of one great 2 through FM opening on 5/22, there hasn't been too much else. I am DXing at two locations again this year: here, and at my parents home at Gouldsboro. At both locations I am using a combination, switchable, channel 2 & 5 quad loop, stretched along a wooden frame. The channel 2 element favors channels 2 & 4, while the smaller channel 5 element in the center of the frame favors channels 3, 5, & 6. An absolutely superior indoor antenna for the skip channels in my opinion. The channel 5 loop in the center of the Ch. 2 loop does not seem to produce a loss of gain in either loop as I had expected. For each loop I have used inexpensive lamp cord which works fine. Most of the skip openings have been occurring during the week when I am in the city, so my loop at Gouldsboro hasn't had too much of a workout. I have been thinking of trying an amplifier or them. This would pose no problem with locals, since I have no locals on WUF here, ni.

he WX as well as CX are miserable this Memorial Day weekend. If anyone has experimented with quad loops or would like information on them please contact me here or at my Gouldsboro address. I may make it to Baltimore this year.

JULY 1979

Paul Mount 35 $\frac{1}{2}$ W. Columbus St. Nelsonville, OH 45764 (EDT)

May		June		July		August			
6	Tr 0300	WHEV-6 IN (225) Indianapolis	1	Tr 0159	WILX-10 MI T Onandaga	2	Tr 0235	WDIV-4 MI Pittsburgh	
14	0206	WVVA-6 WV (157) Bluefield	0203	WHRV-6 IN (225) Bloomington	0207	WTV-4 IN (225) Lansing	0245	WTAE-4 PA (137) MI (260)	
(At	0212	WHEV-6 IN (225) Hocking Tech. College)	2	0157	WLOS-13 NC (280) Asheville	0250	WTV-4 IN (225) WHRV-6 IN (225)	0431	WJWN-8 OH (140)
31	0227	WDIV-4 MI							

After rain most of Thursday, Friday (June 1) was mostly hot and partly sunny. Checking V at midnight, local information station said, "Due to atmospheric conditions some channels are unwatchable. Except for no video from WCHS-8, nothing unusual noted, nor on FM. Makes me think I missed something big. Anyone having tips on taking TV photos using an instamatic? (An instamatic is not a good camera for TV pictures because of its small lens opening and slow film speed. I don't think it is made, but you might try to find Kodak Tri X film. Otherwise, make the room as dark as possible and the TV picture as bright as possible. My results with instamatic taken TV pictures were not encouraging. ed).

Bob Grant 5575 Bishop Detroit, MI 48224 (EST/EDT)

I had a rotten DXless, frrrreeeezzzzzing winter. My \$19.95 RCA antenna broke, so I put on a \$.65 Radio Shack antenna. Result: semi-locals such as WJW were gone. In April, the RS antenna broke, but the loop was still good. This meant that I could DX the U's on this RCA color 23". As for the V's, I had to run upstairs to use my GE 23" B&W TV (its not equipped for JHF). I will buy another antenna soon. Those of you who saw my last set of logs (Feb. 79 VUD), all loggings were new, and I also got WKSW-7 NY & WSJV-28 IN. But at the time they were partially identified because I didn't know the call letters. So on with the DX.

March	22 Tr 2105	MUTV-29 NY (205)	19 Tr 2350	WIGU-12 PA (145)
22 Tr 0555	CKGN6P-6 ON (140)	Buffalo	20	0000 WJLN-54 PA (145)
0615	CHCH-11 ON T	2250	CHCH-11 ON (170)	
	"GGI on WTOL"		"stronger than	
	2000	GGI on all locals	WTOL"	
2015	CKGN6P-6 ON (140)	April	22	Es 2015
2020	CFTO-9 ON T	18 Tr 0200	WJET-24 PA (145)	United FES 5
	"GGI on CBET"	19	2345 WJET-24 PA (145)	"My list Es"
				2025
				WEDU-3 FL
				Tampa
				"list Ided Es"

Robert Goodman 5129 Roosevelt Rd, Apt. B7 Cicero, IL 60650 (GST/CIT)

April			18 Tr	0558	WHMB-40 IN (160)	22 Es	1802-2240	WEDU-3 FL
12 Tr	0825	WTMJ-4 WI (80)		0624	WTHR-13 IN (160)		1808	WJXT-4 FL (950)
	0827	WCIA-3 IL (120)		Es	1055	Unided 2 & 3	1815-2051	WTWJ-4 FL
	0900	WHBF-4 IL		1100	WBEZ-4 MA (850)		1828-2240	WWAY-3 NC
		Rock Island			Boston		1831-2204	WGIV-4 SC
17-18		"See notes"	22	1612-1730	Unided 2		1902-2240	WFBI-2 FL
May				1637	WTWJ-4 FL (1200)			Miami
4	0755	WFFT-55 IN (140)			Miami		1910-2034	WESH-2 FL
17	2200	Rockfords (80)		1644	WGIV-4 SC (750)			"Both thru a local"
	2210	WMTV-15 WI (120)		1648	WEDU-3 FL (1000)			
18	0500	WLFI-18 IN (110)		1649	Unided 5		1823-2048	Unideds 5
	0547	WICD-15 IL (120)		1722	WWAY-3 NC (750)		2050-2123	NCIX-6 FL
		"See notes"			Wilmington			Miami

"Details of 5/22 skip opening involve some interpolation, and are provided for E cloud tracing. 5/18 ES loggings and 4/12 logging of WHBF by tropo were at Pershing Convalescent Home (no I wasn't convalescing). I've still never seen WHBF-4 at my apt. All I saw here was some CCI on WTNJ; both loggings were essentially ground floor with whip built-in antenna. I must have blockage. Troops started easterly overnight 4/17-18, returned the night of 4/18, then moved from east to north, but never built into much. Some troops (S. Bend-Elkhart & ES Michigan) also seen April 3, 7, 10, 22, 23; May 1, 4, 21, 23, 25, 30. UHF antenna was indoor 2-bay until 0547 on 5/18; then I switched to indoor 4-bay. It outdoes the 2-bay on lower, but not upper channels.

Michael L. Hogan 13910 Chippewa Ave. Apt. 1 Burnham, IL 60633 (CBT)

15	Tr 0700	WGRF-39 IL	Petroit	22 Es 1855	WGIX-6 FL
		Rockford			Miami
20	Tr 0900	WTWS-56 MI (280)	Detroit	29 Tr 0700	WFTT-55 IN
		Detroit			Ft. Wayne
			22 Es 1830	WTWJ-4 FL	(log total: 97 stations)
				Miami	

"All of these loggings were made on a Magnavox 9" B&W portable w/a built in loop for UHF and built in whip for VHF. I hope DX CX will remain status quo for all of us so that we may fatten our totals and contribute them to TV Statistics, as well as other WUD columns.

Marvin Shults R.R. #1 Toulon, IL 61483 (CST/CDT)

April	23 Tr 0616	KMEG-14 IA	18 Es 1156	WFSB-3 CT
8 Es 2127	X???-2 Mexico	KTIN-21 IA	1229	WGBH-2 MA
	Matamoros, Tam.	0617 KHIN-36 IA	1828	WPBT-2 FL
22 Tr 1945	WUAB-43 OH	0618 WRTV-6 IN		WESH-2 FL
	WXCN-20 MI		1829	WYTV-5 FL
	WYTV-33 OH			WFT-5 FL
	WNED-45 OH		1856	WEDU-3 FL
1958	WKBW-27 OH	17 2129	187	WDBO-6 FL
	WUTV-29 NY		1932	WCIX-6 FL
1959	WGTE-30 OH	18 1059	2048	WCIX-6 FL
	WDHO-24 OH	1100	2051	WTVJ-4 FL
2010	KBMA-41 MO		28 Tr 0829	WHAS-11 KY
	KYFC-50 MO	1130		
	Kansas City			

"When I received the Matamoros station they used an English ad for a McAllen, TX firm. At 2130 on April 8 they also had an english movie beginning at the time. Apparently they are broadcasting at least part of their schedule in EE as I heard no SS during the period I received them. Their call letters have been listed as XHCR in the station guide, however, all they used was channel 2, Matamoros, Tamaulipas. On May 22 I was receiving WCIX 6, WDBO-6, & local WOC-6 all together at 2130. I watched the 2100 local news on WCIX and photoed their TV# "Tallest Tower-Twice the Power" ID. 73."

Robert Kramer 3406 W. Pierce Chicago, IL 60651 (CST/CDT)

CARBONDALE QTH	29 Tr 2112	WSJV-28 IN (326)	14 1820	WLKY-32 KY
(14th floor of the dorm)		WUHQ-41 MI (388)	2128	WHAS-11 KY
October 1978		"Local Grade"	(Carbondale QTH, from	
23 Tr 2010	KBMA-41 MO	WGVC-35 MI (412)	Mobile Home)	
	KHIN-36 IA (395)	KRIN-32 IA (367)	May 1979	
	KRIN-32 IA (367)	WKLE-46 KY	6 Tr 2135	WFTY-24 TN
2228	KYIN-24 IA (437)	WKKA-35 KY		Memphis
2234	WKOW-27 MI (327)	WKGB-53 KY		WMAV-18 Mo
2240	KTIN-21 IA (428)			Oxford
2241	KTSB-27 KA (370)	2118	KDUB-40 IA (346)	
2249	KDUB-40 IA (346)	2125	WGAB-50 IN	
	WHME-46 IN (309)	2132	WKAR-23 MI (435)	7 0015
2254	KSIN-27 IA (510)		WGTV-29 MI (524)	0040
2307	WSNS-44 IL (302)	2237	WDHO-24 OH (413)	WLBW-13 KA (370)
	WSJV-28 IN (326)		WREX-13 IL (310)	
	WEAU-13 WI (512)	30 0830	S. Bends (309)	0045
2317	WNIT-34 IN (309)		WLFT-18 IN	KMTC-27 MO
	KGWL-7 IA (367)		WKAR-23 MI (435)	Springfield
24 0005	KCRG-9 IA (326)		WFLD-32 IL (302)	0130
0830	KYIN-24 IA (437)		WGVC-35 MI (412)	KMTV-9 OK (494)
	WKOW-27 MI (327)		WUHQ-41 MI (388)	Oklahoma City
	WSJV-28 IN (326)		WSNS-44 IL (302)	KTVH-12 KA (450)
	KHIN-32 IA (367)		WFFT-55 IN (312)	Wichita
	KHIN-36 IA (395)	November		0200
	KDUB-40 IA (346)	1 Tr 0600	WGN-9 IL (302)	WLS-7 IL (302)
	KTSB-27 KA (370)	0830	WSNS-44 IL (302)	9 Es 1820
	KBMA-41 MO		WNIT-34 IN (309)	KTWQ-2 MI
	WHME-46 IN (309)		WFLD-32 IL (302)	Billings
	WKBW-53 KY		WKOW-27 MI (327)	1858
1113	WSNS-44 IL (302)		WIFR-23 IL (312)	KDIX-2 ND
	"Snow Free"	8 2025	WSNS-44 IL (302)	Dickinson
	KOPT-19 MO	9 0828	WFLD-32 IL (302)	1930
	"Snow Free"		WSNS-44 IL (302)	CXCK-2 SA
	KHIN-32 IA (367)	10 0900	WSNS-44 IL (302)	Regina
	"Snow Free"		WSN-4 TN	10 1955
	KBMA-41 MO		Nashville	KDIX-2 ND
	"Snow Free"		WBKO-13 KY	CXCK-2 SA
1938	WSNS-44 IL (302)		Bowling Green	
	"Snow Free"	14 1135	WSJV-28 IN (326)	Chicago QTH
	WUHQ-41 MI (388)		S. Bends (309)	December 1978
	WFLD-32 IL (302)		WSNS-44 IL (302)	30 Es 1702
	WGVC-35 MI (412)		WTL-30 IN	KWAB-4 TX
	WCU-26 IL (302)		WFTY-20 IN	1715
25 0037	WSBT-22 IN (309)		WLFT-18 IN	KHOL-4 TX
29 2122	Chicago U's (302)		WTHR-13 IN	January 1979
	S. Bends (309)	1149	WPMI-68 KY	3 Es 0439
		1820	WKPC-15 KY	WJXT-4 FL
				0459
				WAL-5 NC
				0500-0544 Multiple
				Unided bursts 7&8
		May		
		14 Tr 0030	KPLR-11 MO	
			0100	WAND-17 IL
			0130	KDNL-30 MO
			0518	KFVS-12 MO (332)
			0539	WHAS-11 KY
				WLKY-32 KY

Robert Kramer Continued

May		22	2s 2058	Television Nacional]	1	Es 1000	WCP-4	NM			
17	Es 2226	Weak 3 &4		Cuba, Santa Clara			KMID-2	TX			
18	1031	KOTA-3	SD T	23	1648	KENW-3	NM	1105	KPRC-2	TX	
	1050	KYW-3	PA T		1656	KGBT-4	TX	1115	KETX-3	TX	
	1100	WBZ-4	MA		1815	KIIL-3	TX (1100)		KDFW-4	TX	
	1428	CJBR-3	FQ		1815	KGBT-4	TX	1152	KAJZ-6	TX	
Tr	2356	WKBD-50	MI (240)		1829	Severe	CGI on		Wichita Falls		
		WFFT-55	IN			WBEM-2	*	1158	KTVY-4	OK	
19	0000	WPTA-21	IN		1858	KPRC-2	TX	1300	KOA-4	CO	
	0045	WKJG-33	IN		1920	KENW-3	NM	1320	KRMA-6	CO	
20	0445	WDIV-4	MI (240)		1950	KAMR-4	TX		KLNE-3	NE	
		Detroit			2015	KWAB-4	TX		Lexington		
		WITZ-7	MI (240)		2020	KMID-2	TX	1328	KTVS-3	CO	
	0515	WBEM-5	MI (234)	28	Tr 0240	WKRC-12	OH	1335	KMGH-2	CO	
	0516	WFFT-55	IN	Ma	0513	WPMY-2	NC T 567		Denver		
	0525	WJXT-12	MI (223)		0542	KTNW-2	OK T	1435	KOTA-3	SD	
		"Local Grade"				Tulsa (600)		2255	KENW-3	NM	
	0527	WTOL-11	OH (220)	Es	2029	XEPR-3	Mex T	Tr	1800	WKBD-50	MI (240)
	0530	WBYT-25	MI (220)						WTVS-50	MI (240)	
	0538	WTVS-56	MI (240)	29	Tr 0430	WKRC-12	OH		1830	WGPR-62	MI (240)
	0543	WSPD-13	OH (220)	Es	0958	KENW-3	NM	2	0130	WEEF-22	OH
		WDHO-24	OH (220)		1125	KENW-3	NM	3	Es 1957	KIIL-3	TX
	0552	WXON-20	MI (240)	Tr	2310	WKBD-50	MI (240)	5	1359	KGBT-4	TX
	0601	WKJG-33	IN	30	0007	WKJG-33	IN			KIIL-3	TX
	0614	WKBD-50	MI (240)		0019	WLIC-35	OH		1800	KIIL-3	TX
		"Local Grade"				WFFT-55	IN			KACB-3	TX
	0649	WGPR-62	MI (240)	Es	2257	WEDU-3	FL			KMID-3	TX
	0703	CKOO-42	ON	31	Tr 0510	WTOL-11	OH (220)		1806	KFDX-3	TX
22	Es 1810-2240	WEDU-3	FL		WSPD-13	OH (220)				KWAB-4	TX
	1810-2130	WTVJ-4	FL	<u>June</u>					1842	KPRC-2	TX
	1830	WJXT-4	FL (87+)	1	Es 0925	KENW-3	NM		1858	KTVX-4	UT
	1852	WGTX-6	FL (1208)		0930	KFDX-3	TX		1925	KOA-4	CO
		Miami				KAMR-4	TX		1929	KENW-3	NM

Since I began typing this, several other openings were noted. The loggings from these follow below.

<u>JUNE</u>		7	Es 1930	KGBT-4	TX		
6	Tr 0440	WDIV-4	MI (240)	8	Es 2233	KACB-3	TX
		WITZ-7	MI (240)		2326	KPOL-4	TX
		WSPD-13	OH (240)		0001	AHCR-2	Mex
	0550	WXON-20	MI (240)			Matamoros	
7	Es 1930	KIIL-3	TX		0040	KENW-3	NM
						Severe	CGI
						on	WBEM

The XHCR logging did not include call letters. All I could get was the name of the city, & the channel number. I am not even positive about it completely, because it is hard to ID something through a local 3 air miles away. XHCR appeared to be running an ID constantly (its still trying to superimpose in with WBEM now, at 0055). This ID was in script writing, city name on top, channel number in the middle, and something I couldn't make out below it. The writing is very small, and moves all over the screen because of the strength of WBEM. I also had this on June 1 for about 3-4 hours, but I couldn't figure out what it said. Marvin Shults' logging steered me in the right direction.

SPTS '79 Oklahoma City, August 14-16

Are you interested in direct home reception of satellite TV signals? On August 14th, 15th, and 16th, the 1979 Satellite Private Terminal Seminar will be held in Oklahoma City. The seminar will feature the world's leading advocates of low-cost satellite TV reception equipment, and should be of great interest to anyone interested in microwave technology, with the emphasis on the practical aspects. Those attending will get to see how you can construct a satellite TV terminal, using currently available microwave surplus gear, for less than \$1000! For information on the seminar, contact Bob Cooper, Jr., Route 5, Box 364, Guthrie, OK 73044.

VHF UTILITY DX

Pat Dyer
5315 Silvertip Drive
San Antonio, TX 78228
Deadline: 5th of month

JULY 1979

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015 QSLed, GMT

2-24:
2016 KFB975 42.50 San Jose, CA-sp (110 watts)
2020 KMH963 " Chico, " " (144 w) sp - state police
3-11: mp - mobile phone
1915 - 42.20 Sacramento, " " (100-120 w)
3-16:
2004 KGT444 42.34 Antelope Peak, " " (100 w)
4-8:
2210 KMA333 35.38 Fresno, CA-mp (Pacific Telephone & Telegraph)

My loggings. Hallicrafters SX-62, Hammarlund SP-600-JX-10, 2 30' wires at 12', ne-sw, nw-se runs; F2 unless noted (* Es, bs-backscatter) with daily peaks noted; GMT used; 49.6+ Swan 250+Ameco nuv, 5-e Cash. @ 23'

5-6:	5-15:
1325 30.30 D.Welle (Carib.rly.)-ha	2100 40.99 Spanish
2100 36's Spanish (Colombia ?)	5-16:
2245 45.25 New Zealand (TV video)	1525 30.475 Esp., 1625 35.78 Brazil?
2305 30.42 Canada, 30.475 Espinal	5-17:
5-7:	1830 35.78 Brazil ?
1430 low-30 Canada	5-19:
1655 30.475 Espinal, Colombia ha	0004 44.27 (ssb) Latin America ?
2115 45.35 Spanish, 2210 45.25 NZ	5-20:
5-8:	1715 30.80 harmonic
2105 49.92 Spanish, 2259 30.475	5-21:
2355 45.25 NZ	2135 mid-38 Spanish
5-9:	5-25:
0410 35.46 San Diego, CA-mp *	2145 30.30
2020 42.04 Spanish, 2140 45.25 NZ	5-26:
2334 KLF527 35.22 Honolulu, HI-tp	0005 35.58 bs; 1638 32.96 Spanish
5-10:	5-27:
2020 hi-39 Spanish, 2305 45.25 NZ	1520 30.475 Espinal
5-12:	5-28:
1810 35.02 Brazil ?	1630 30.475 Esp., 2200 32.96 Spanish
5-13:	5-29:
1910 low-30 Canada, 2015 35.22 Sp.	0613 KOE257 35.22 Phoenix, AZ-tp *
5-14:	6-5:
2120 45.25 Spanish, 2220 45.25 NZ	2110 38 Spanish
2325 KLF527	(ha-harmonic; tp=tone pager)

Still some good reports of 50-MHz conditions in the Pacific in May with Hawaii to New Hebrides and Australia, though not as often now.

The solar flux average for May fell to 166 (the lowest since November). However, if the first week of June so far is a reliable trend, then the 3-month slump may be at an end. Sustained levels over 200 had not been with us since February. However, F2 effects on VHF in the summer are limited anyway.

Got detailed information from the Broadcasting Corporation of New Zealand on their CH 1's, with a total of nine instead of the 3 or 4 thought to be it. Will run more details on them soon.

Us sluggish with MUF's so far with nothing into the VOR's yet.

However, at 50 MHz multi-hop Es brought the Hawaiian beacon into NJ & CT. 2Es from TX to the Pacific nw fairly good while almost none to the ne...K4ERO/HCL (Pifo Ecuador) has 50.03 cw beacon on now.

73, Pat

WASIXX

35

WESTERN TV-DX

July 1979

Fred McCormack
Box 5221
State University Sta.
Fargo, ND 58105

Deadline: 5th

This month's reports indicate that the May Es this year has not been exceptional. There seems to have been considerably more activity in the south. I have been somewhat disappointed with DX here in Fargo. The openings have been intense at times, but almost always to the south. For variety, it would be nice to see some east-west DX paths.

New _____ New Mode _____ Tentative - t Unidentified - unid.
Leo Boehl, 622 W. Koenig, Grand Island, NE 68801 CST
Equipment: CM Quantum 1112 @ 35', AR22XL, CM 0263 preamp, Zenith 23"B&W(14N22)

April 1979

9 tr 1055 <u>KsFY</u> 13 SD 200	21 tr*2300 KOMU 8 MO 300	22 tr*0115 KTIV 4 IA 175
(loc. KHGI off-repairs)	2310 <u>KTVH</u> 12 KS 200	<u>KCAU</u> 9 IA 175
11 tr 0125 KTIV 4 IA 175	2330 KAYS 7 KS 150	0146 <u>KTVH</u> 12 KS 200
21 tr*2245 KNOP 2 NE 150	22 tr 0045 KAKE 10 KS 230	(news/sign/off)
tr*2250 <u>KOAM</u> 7 KS 300	*0100 <u>KOMC</u> 8 NE 125	*during NBC Olympathon
	(always hidden)	

Opening the night of 4/21 was the best here since 9/14/78. Zenith went down shortly after this but is now almost back to shape. Now the preamp is starting to act up! I guess they just don't make juice like they used too. 73

Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78228 CST
Equipment: 1976 model 9-inch b&w Penncrest, Archer V-100 and 8-bay bow-tie UHF antennas at 20 feet with rotor

May 1979

2 tr 0040 KUSA 7 TX 280	3 Es 1559 YSR 2 ES 1200	9 Es 1600-1625 unids 2,3
Es 0055-0125 unids 2,3	1725 unid 2 sw	1615 KDLX 2 ND 1225
west, spotty	1759 WPBT 2 FL 1150	1740 KTCG 2 MN 1110
0725 unids 2,3	1915 YSR 2 ES 1200	1750 WCCot 4 MN 1110
0800-0820 unid 2 n	2000 f/outs	1755 KLNWt 3 NE 785
(meteor overlap)	1205 YSR 2 ES 1200	1759 KGF6 2 ND 1240
0903 2 Cuba	1208 YSU t 4 ES 1200	1815 f/outs
1055 ch3 Cuba net 6	1240 TGV t 3 Gu 1120	2000-2100 unids 2 ne
1115 lull after	1329 Cuba 2 (tp)	2118 WBBM 2 IL 1045
solar noise burst	1350 WCBdt 2 SC 1120	2122 CKOO 2 ON 1405
1135-1220 unid 2	WWAYt 3 NC 1250	2220 f/outs (cb tp)
59 WTHS 2 FL 1150	1359 WSB 2 GA 880	10 Es 1235-1325 unid 2 n/
1555 unids 2 spanish	1420 WDTN 2 OH 1075	1700-1750 unid 2
1640-KHBC 3 BCN1Q10	1443 WNGE 2 TN 820	2055-2100 unids 2,3 n
XEWot 6 Son 700	1459 WESH 2 FL 1055	11 Es 1150 unid 2
1655 KNBct 4 CA 1190	1505 WAVE 3 KY 945	1200-1245 unids 2,3 e
1658 KNXT 2 CA 1190	1600 f/outs	1315 WEDU 3 FL 985
KTlat 5 CA 1190	5 Es 0800-0810 unids 2 ne	1332 WESH 2 FL 1055
1800 KTWO 2 WY 1015	1030-1100 unids 2,3	1420 YNTC 2 N1 1400
1830 unids 2-6	1225 unid 2 nw	1459 Cuba 2 tp
2059 KUSD 2 SD 920	6 tr 0829 <u>KLRU</u> 18 TX 85	1620 (MUF to 94.7)
tr 2120 KSWO 7 OK 355	(Austin //KLRN 9)	1629 WDTN 2 OH 1075
Es 2122 WBAY 2 WI 1190	1405 WBRZt 2 LA 450	1659 WJJK 2 MI 1225
2123 KMTvt 3 VE 830	WAFBt 9 LA 450	1700 WKYC 3 OH 1250
2129 KDLO 3 SD 1070	7 tr 0710 KMCCt28 TX 340	1800 KDKA 2 PA 1280
2220 f/outs	0725 KCBT 11 TX 340	unids to 2040
tr 2320 HHX t10 NL 275	KIDZt24 TX 305	12 Es 1030-1035 unid 2
3 Es 0725 unid 2 w, brief	1540 XHABt 7 Tamp250	1605 TGV t 3 Gu 1120
0829 KUTV 2 UT 1080	2215 WRBTT33 LA 450	1610 YNTC 2 N1 1400
0930 WBBM 2 IL 1045	KPLct 7 LA 325	1755 f/outs
0950 unids 2-6	WAFBt 9 LA 450	13 Es 1055 YNTC 2 N1 1400
(MUF 21MHz by 1020)	0439 KPLC 7 LA 325	1135 unid 2 (US)
1030 KGF6t 2 ND 1240	0443 KMCC 28 TX 340	1225 f/outs
1034 KDLO 3 SD 1070	0500 KSLA 12 LA 350	15 Es 1935-2020 unids 2
1110 KDLX 2 ND 1225	Es 1635-1725 unid 2 sp.	1935 WLSht 2 FL 1055
1155 f/outs	2015 unid 2	2020 WPBtt 2 FL 1150
1535 YNTC 2 N1 1400	9 tr 0050 KLBK 13 TX 340	16 tr 0040 KET 6 WL 275
	0105 KWTV 9 OK 420	0845 unid 2
		1810 KUTV 2 UT 1080

Pat Dyer (continued)

May 1979

	23 Es	0825-1015 unids 2	28 Es	1020-1030 unids 2 w
16 Es	1820 KTVXt 4 UT 1080	spanish se/s	1120-1250 unids 2,3	
	1822 possible xltor	1045 KWGN 2 CO 810	1229 KWGN 2 CO 810	
	CCI on ch 2	1049 KOAT 4 CO 810	1310-50 unids 2,3	
	1915 f/out	1135 KMTVt 3 NE 830	2-sp sw, others w/ne	
	2030-2120 KNXTt 2 CA	1200 KTVS 3 CO 815	1359 KTCA 2 MN 1110	
17 tr	0447 KPLC 7 LA 325	(MUF 96.5 at 1205)	1400 KDLHt 3 MN 1250	
	1450-1455 unid 2 n	1210 KRMAT 6 CO 810	1404 WCCot 4 MN 1110	
	1543 WBBM 2 IL 1045	1329 KDIX 2 ND 1225	1415 KSTPt 5 MN 1110	
	1553 WKZO 3 MI 1140	1359 WCRD 2 SC 1120	1428 KBJRt 6 MN 1250	
	1640 f/out nw	WESH 2 FL 1055	1500 f/out	
	1925-2030 unids 2	(MUF 90.1 at 1503)	1530-1700 unids 2-4s	
	2105 WPSXt 3 PA 1370	1525 WEWSt 5 OH 1250	1720 KVVUt 5 NV 1040	
	2108 KDKA 2 PA 1280	1529 WKYC 3 OH 1250	1735 KNXt 2 CA 1190	
	2245 f/out	1559 WSB 2 GA 880	1759 KID 3 ID 1215	
18 Es	1245-1320 unids 2 ne	1600 WTWO 2 IN 935	1800 KUTV 2 UT 1080	
19 Es	0925-1150 unids 2-5	1602 WFMY 2 NC 1175	1820 KTVXt 4 UT 1080	
	(MUF 98.5 at 1008)	(MUF 99.1 at 1649)	1825 KSL t 5 UT 1080	
	1120 unids 2,3	1645 WLact 5 TN 820	1829 WBAY 2 WI 1190	
	1230 KEYTt 3 CA 1270	1659 WQDR 2 TN 820	KORK 3 NV 1050	
	1234 KNXT 2 CA 1190	WSAZ 3 WV 1100	1857 KCRa 3 CA 1405	
	KNBCT 4 CA 1190	WOAT 4 WV 1150	1859 KTWO 2 WI 1015	
	1259 KBCI 2 ID 1370	1759 KUSD 2 SD 920	KWGN 2 CO 810	
	1430 f/out	1800-1940 unids 2-6	1900 KRMAT 6 CO 810	
	1500-1520 unids 2	(MUF 90.1 at 1905)	(MUF 103.5 at 2017)	
	1955-2035 unids 2 e	1859 KBJRt 6 MN 1250	2100 WWAY 3 NC 1250	
	2225 unid 2	1944 WISC 3 WI 1065	2130 WSAvt 3 GA 1050	
20 Es	0040 unid 2 n	(MUF 89.3 at 1955)	WCIVt 4 SC 1120	
	1115 unid 2 e	2113 KDIX 2 ND 1225	2211 WFMY 3 NC 1175	
	1600 KNXT 2 CA 1190	2254 KDLH 3 MN 1250	2225 WBTV 3 NC 1105	
	KEYTt 3 CA 1270	(MUF 89.7)	2315 KOAIT 2 AZ 855	
	1659 WSJK 2 TN 1010	2304 KTVQ 2 MT 1245	f/out	
	unids 2-5	Ch3 ID logo for 29 Es	0025 unid 2	
	(MUF 99.3 at 1710)	KUTV, xltor?	0030 KORK 3 NV 1050	
	1827 KNXT 2 CA 1190	21 Es	0100 f/out	
	(MUF 98.5 at 1905)	0000 KTVQ 2 MT 1245	0820-50 unids 2-6	
	2000 WMT 2 IA 945	0020 f/out n ne	0847 WCCot 4 MN 1110	
	2005 KOTA 3 SD 1040	2320 unid 2 w/aw	0859 KDLH 3 MN 1250	
	2058 KDIX 2 ND 1225	25 Es	KTCA 2 MN 1110	
	KNOP 2 NE 815	0940-1000 unids 2 ne	0920 KFYRt 5 ND 1200	
	2210 f/out to n	1010 WGR 2 NY 1420	0935 KDSJt 5 SD 1060	
22 Es	0759 WPBT 2 FL 1150	1059 CECY 2 OH 1405	(MUF 97.9 at 0945)	
	WESH 2 FL 1055	1117 WMT 2 IA 945	0959 KTWO 2 WI 1015	
	0825 WTVJt 4 FL 1150	1128 WBAY 2 WI 1190	KOTA 3 SD 1040	
	0829 WEDU 3 FL 985	1259 KTWO 2 WI 1015	1115 KTVXt 4 UT 1080	
	(MUF 98.7 at 1840)	1330-1400+ unids 2	KSLt 5 UT 1080	
	0845 WAGAt 5 GA 880	1429 KTVQ 2 MT 1245	(MUF 98.7 at 1140)	
	0959 WNGE 2 TN 820	1540 f/out	1158 KTVQ 2 MT 1245	
	WSAZ 3 WV 1100	26 Es	1159 KYUS 3 MT 1230	
	1055 KNBCT 4 CA 1190	1010-1035 unid 2 sw	1230 apx f/out	
	1059 KNXT 2 CA 1190	1455-KWGN 2 CO 810	1315-20 unid 2 n/ne	
	KEYTt 3 CA 1270	1830-1850 unids 2	1925-2250 unids 2,3	
	1115 f/out	1857 WBAY 2 WI 1190	2136 KUTV 2 UT 1080	
	1145-1155 unids 2 n	1859 WJMN 3 MI 1280	2213 KID t 3 ID 1215	
	1300-1330 unids 2 ne	1959 KQFE 2 ND 1240	1110-1330 unids 2,3,5	
	1328 WUND 2 NC 1360	KINT 3 IA 985	1110 KNXTt 2 CA 1190	
	1359 WCRD 2 SC 1120	2012 KDIX 2 ND 1225	1129 KOAI 2 AZ 855	
	1408 WCIVt 4 SC 1120	2028 KUSD 2 SD 920	KORK 3 NV 1050	
	1429 WWAY 3 NC 1250	2055 KFYRt 5 ND 1200	1210 KVVUt 5 NV 1040	
	1559 WPBT 2 FL 1150	2101 KDLO 3 SD 1070	1450-1500 unid 2 QRW	
	1710 f/out	2105 KOTat 3 SD 1040	1528 WESH 2 FL 1055	
	1805 unid 2 ne	2200 KTVQ 2 MT 1245	1750 apx f/out QRW	
	1819 WKY 2 NC 1175	2210 f/out	1950-2250? unids 2-4	
	1925 unids 2-6	0140-45 unid 3	2035 KTVXt 4 UT 1080	
	(MUF 97.3 at 1747)	1200-05 unid 2 s/se	2100 WBBM 2 IL 1045	
	120 ADIN 2 O. 107.	2045 XNBCT 3 BCN1010	2216 KUTV 2 UT 1080	
	2205 f/out	XHAqt 5 BCN1010	2235 KORKt 3 NV 1050	
ms	2221 WBRZ 2 LA 450	(MUF 97.1 at 2050)	0759 WJWB 2 MI 1225	
23 Es	0830 KNXTt 2 CA 1190	2050 KZT 6 BCN1100	WJW t 4 MI 1225	
		2115 KZVt 3 AZ 955	0959 KTGA 2 MN 1110	
		2129 KNXT 2 CA 1190		
		2225 KNBCT 4 CA 1190		
		2300 f/out QRW		

Pat Dyer (continued)

May 1979

31 Es 1029 KGFE 2 ND 1240
KUSD 2 SD 920
1155 WCCot 4 MN 1110
1205 f/out
1300-40 unids 2-4
1330 WRAY 2 WI 1190
1450-1500 unid 2
1930-1950 unid 2 n
2050 KWHN 2 CO 810

31 Es 2050 KRMA 6 CO 810
2059 KTWO 2 WY 1015
KTVXt 4 UT 1080
KSL t 5 UT 1080
(MUF 98.5 at 2132)
2215 KNCBt 4 CA 1190
KPLat 5 CA 1190
2230 KTVKt 3 AZ 835
2300 KNXT 2 CA 1190
2329 KQTV 2 MO 750

31 Es 2335 KORnt 5 SD 970
2340 KDLO 3 SD 1070
2355 f/out

June 1979

1 Es 0810-1025 unids 2-6
1029 KDLE 3 MN 1250
1032 WCCot 4 MN 1110
KTCat 2 MN 1110
1058 unid 6 Canada
1130 unid 6 spanish
1200- unids 2-5

After a slow start, a fair Es month in May. However, the MUF's are not getting into the FM band as quickly (or as long or as far) as in other years.
73, WA5IYX

B.W. Battin, 4305 Pitt, Duluth, MN 55804

assumed CST

May 1979

9 Es 2217 WBRZ 2 LA 1145 10 Es 2059 WDIQ 2 AL 1125 31 Es 1125 WBRZ 2 LA 1145
10 Es 1931 WFHY 2 NC 1000 18 Es 1202 WSM 4 TN 805 1359 WMAB 2 MS 960

It looks as if those who were predicting another lousy Es season were right. So far, this has been the worst I've ever seen, demoting last year to second worst. There has been absolutely no tropo so far, and my reception report fairly well sums up the DX here -- zilch! 73 and here's hoping things pick up....Buck

Jim Pizzi, 300 Park, Orcutt, CA 93454

PST/ 5-1-79 PDT

April 1979

8 Es 1129 unid 3 e
17 Es 1138 KMID 2 TX
KACB 3 TX
Kwab 4 TX
1149 KNMBt 5 NM
1200 KAMR 4 TX
1205 KOB 4 NM
1205 KENWt 3 NM
1224 KXTX 5 TX

12 Es + KWAB 4 TX
1830 KAVE 6 TX
14 tr 2210 KDTV 14 CA
KCSH 60 CA
15 tr 2110 KGSC 36 CA 4555
KTES 54 CA 4555
16 tr 2130 KGSC 36 CA 3555
KTES 54 CA 3555
17 tr 2115 KMUV 31 CA
KTXL 40 CA

29 Es 2152 unid 4 e
2155 unid 3 e
30 Es 2006 KDIX 2 ND
2027 KTWO 2 WY
2120 unid 5 ne
2135 unid 4 ne
2144 KREM 2 WA

June 1979

1 Es 1150 KMID 2 TX
KWAB 4 TX
KACB 3 TX
2205 KREM 2 WA
KTVY 4 OK
KOCO 5 OK
2206 KTEW 2 OK
2215 KGNC 4 TX
2223 KWGN 2 TX
2242 JKCK 2 SK
2 Es 1720 unid 2 ne
2102 KDIX 2 ND
2220 unid 2 ne
2230 KXLF 4 MT
KTVQ 2 MT
2235 KCSA 2 AB
2250 GFCN 4 AB
2252 CFAC 2 AB
2255 CFRN 3 AB
2302 KREM 2 WA
2334 KXLY 4 WA

May 1979

4 Es 1850 unid 2 nne
2056 KREMT 2 WA
2059 KXLY 4 WA
KLEW 3 ID
2118 KBCI 2 ID
2119 KAID 4 ID
2127 unid 5 nne
2123 unid 3 nne
2200 CFAC 2 AT
2212 CBKMT 4 SK
2213 KTVMT 6 MT
5 tr 1045 KTXL 40 CA
6 tr 1057 LA U's Fr-Good
11 Es 1547 unid 2 se sp
12 Es 1828 KMID 2 TX
KACB 3 TX

19 Es 1239 unids 2,3,4, n
1417 KXLY 4 WA
1418 KREM 2 WA
1820-25 unids 2,3,4,
21 K57AB San Luis Obispo
new KEYT owned translt
26 Es 1550 unid 2 ne
27 Es 2047 unid 2 e
28 Es 1100 XHCH 2 CH
1800 KDFW 4 TX
KTVQ 2 MT
KXAS 5 TX
1829 KTWO 2 WY
1830 KOTA 3 SD
KDIX 2 ND
2235 unid 2 e
29 Es 2150 KCKT 2 KS
KARD 3 KS

Steven C. Wiseblood, 707 Loma Way, Santa Maria, CA 93454

assumed PLT

Equipment: 25 element VHF antenna, 22 element corner reflector

May 1979

3 Es 1537 KBOI 2 ID
1929 unid 2 Mexico
4 Es 1831 CBUT 2 BC
1949 XEPmt 2 CH
2021 KXLY 4 WA
2023 KLEW 3 ID

4 Es 2030 KREM 2 WA
2115 KBOI 2 ID
2325 CBUT 2 BC
12 Es 1859 XEPmt 2 CH
1900 KMID 2 TX
1900 XEJ 5 CH
1900 KDFW 4 TX
16 Es 1545 KXLY 4 WA

16 Es 1545 KREMT 2 WA
1630 CFAC 2 AB
(MUF 99.9)
19 Es 0945 KXLF? 4 MT
0955 KATU? 2 OR
1043 KWGN 2 CO
1100 KTVQ 2 MT
1235 KXLF? 4 MT

Wiseblood (continued)

May 1979

19 Es 1247 KRTVt 3 MT
1912 XHBS 4 Sinaloa
20 Es 0700 KMID 2 TX
1026 KATUT 2 OR
27 Es 1959 KMID 2 TX
2009 KWAB 4 TX
28 Es 1559 KMID 2 TX
1600 unid 2 Mexico
1624 KDBC 4 TX

28 Es 1628 unid 5

KCKT 2 KS
1729 KTVQ 2 MT
1758 KTWQ 2 WY
1800 KDFW 4 TX
29 Es 1645 KTWQ 2 WY
1705 KDUHT 4 NE
1900 KUSDt 2 SD
1909 KNOP 2 NE
30 Es 2120 unids 2-4 OR/WA
(MUF 95.7) *

June 1979

1 Es 2133 KTEW 2 OK
2200 KAMR 4 TX
(MUF 34.7 to Ok City)
2224 KWHN 2 CO
2 Es 1705 KREHt 2 WA
KXLYt 4 WA
1935 CHBct 2 BC
3 Es 0853 KJGN 2 CO
0900 KDUH 4 NE

Fred McCormack, Fargo, ND

CPT

May 1979

9 Es 1958 WMAB 2 MS 1015
2037 WLBT 3 MS 1070
10 Es 1930 WNGE 2 TN 905
(MUF 92.3)
2100 WMAB 2 MS 1015
11 Es 1820 WBRZ 2 LA 1185
(MUF 107.1)
1850 KATC 3 LA 1185
2000 KOET 3 OK 810
2028 KFDX 3 TX 900
(MUF 107.9 @ 2050)
2100 KXAS 5 TX 985

19 Es 1328 unid 2 s
20 Es 2125 KOAI 2 AZ 1120
21 Es 0203 KATV 2 OR 1240
0240+ f/out
23 Es 1915 WBRZ 2 LA 1185
1925 KBTX 3 TX 1120
(MUF 107.7 @ 1956)
2103 KMID 2 TX 1060
2200 KEPH 2 CH 1180

23 Es (MUF 95.7 @ 2236)

25 Es 1220 WLBT 3 MS 1070
(MUF 105.3 @ 1247)
29 Es 2215 KMID 2 TX 1060
30 Es 2039 KTVK 3 AZ 1230
2055 XEPH 2 CH 1180
2100 KOAI 2 AZ 1240

June 1979

1 Es 0900 WLBT 3 MS 1070
(MUF 107.9)
1000 KALB 5 LA 1115
1100 WBRZ 2 LA 1185
1130 WKRG 5 AL 1215
(MUF 107.9 @ 1226)
1405 f/out FM band
2058 KPRC 2 TX 1200
(MUF 93.3 @ 2135)
2159 KMID 2 TX 1060
2 Es 0027 KMID 2 TX 1060
1229 KMID 2 TX 1060
KENW 3 NM 965

2 Es 1315 KOAI 2 AZ 1240
2159 KORK 3 NV 1195
3 Es 1900 WBRZ 2 LA 1185
5 Es 1900 KFDX 3 TX 900
(MUF 107.9)
2153 (MUF 106.9)
2159 KVVU 5 NV 1200
7 Es 1932 unid 2
8 Es 1759 KTVH 2 NV 1256
2052 (MUF 102.7)
2225 KATC 3 LA 1185
9 Es 0001 WBRZ 2 LA 1185
0758 KETS 2 AR 890
0800 WBRZ 2 LA 1185
0828 KATC 3 LA 1185
0859 KOET 3 OK 810
0900 KBTX 3 TX 1120
0905 KPRC 2 TX 1200
0930 KFDX 3 TX 900
(MUF 99.5)
0959 KENW 3 NM 965
1255 KOAI 2 AZ 1240

The morning of June 1 was the best so far with the MUF being through the FM band most of the morning. The television channels were a jumble of CCI.

EDUCATIONAL FM UPDATE, PART 2 (continued from page 5)

On the matter of time sharing, the commission felt that it offered some good solutions. For those licensees unable for one reason or another to offer fulltime service, it enabled them to stay on the air offering what service was possible. High school stations seldom operate in the hours when community stations want the audience, and vice versa. In cases where competing applicants want the same hours and are unable to reach some agreement (such as alternate days, or in the case of a New York City pair, alternate years for evening hours), the FCC would be willing to make the decision. It did so many times in the twenties with AM radio.

What the new proposals make possible is more fulltime noncommercial radio. It removes the imitation ten-watters from valuable frequencies and opens them for services geared to the whole city, not just the campus. This is not to say that there are no ten-watters serving the community. There have been and there are. In the past thirty years many have gone on to higher power. These will survive. The rickety-tick operations of kids playing radio will gradually disappear, as they did with AM radio by the depression. Non-commercial radio will become more responsive and responsible. The listener will be able to turn on his radio and know that a station will be there, a station that, in all probability, will not sound like the neighbor's kid aping the local rockers. Some cities, like Dayton, will get their first public radio stations.

IN SEARCH OF PSB

Donald L. Blevins
1715 Earhart Road
Baltimore, MD 21221
301-574-2714

IN SEARCH OF Low Band Government... This month will be a continuation of May 1979's feature about the use of low band by the military. A quick reference to this feature will explain this month's issue.

FREQ	NAME	LOCATION	ACTIVITY
37.60	Aschaffenburg AAF	West Germany	Army A/G
37.60	Ulm AAF	West Germany	Army A/G
37.80	Goppingen AAF	West Germany	Tower
37.80	Hannau	West Germany	Tower
37.80	Hohenfels AAF	West Germany	Tower
37.80	Illesheim	West Germany	Tower
37.80	Schwabisch AAF	West Germany	A/G
38.10	Port Columbus Intl.	OH	Ak operations
38.10	Wheeler-Sack(Ft. Drum)	NY	Army maintenance
38.20	Columbia Metro,	SC	Army operations
38.20	Stewart,	NY	Ak operations
38.30	Hood AAF(Ft. Hood)	TX	Army Range
38.45	Springfield Municipal,	MO	NG operations
38.50	Akron-Canton Regional,	OH	NG operations
38.50	McCoy AAF,	WI	Army Tower
38.60	Butzweilerhof,	West Germany	Belgium Army Tower
38.60	Lincoln,	ME	NG operations
38.60	Ohio State,	OH	ANG operations
38.60	Wilmington,	DE	NG operations
38.70	Davenport,	OH	NG operations
38.70	Godman AAF(Ft. Knox)	KY	Army operations
38.70	Otis AFB,	MA	NG operations
38.70	Westover AFB,	MA	NG operations
38.70	Wright AAF(Ft. Stewart)	GA	Army operations
38.90	Brass Chaat,	Belgium	Belgium Army Tower
38.90	Mackall AAF,	NC	Army Range
38.90	Wright AAF(Ft. Stewart)	GA	Army Tower
39.95	Simmons AAF(Ft. Bragg)	NC	Army Tower
40.00	Hildesheim,	West Germany	German Army Tower
40.00	Laupheim,	West Germany	German Army Tower
40.00	Neuhausen Ob Eck,	West Germany	German Army Tower
40.00	Rheine Bentlage,	West Germany	German Army Tower
40.00	Rotenburg,	West Germany	German Army Tower
40.00	Stewart,	NY	Army operations
40.10	Bayreuth AAF	West Germany	Army A/G
40.10	Heidelberg AAF,	West Germany	Army operations
40.10	Simmons AAF(Ft. Bragg)	NC	Army weather "Carolina Center"
40.20	Bauholder AAF,	West Germany	Army A/G
40.20	Richard Byrd International,	VA	NG operations
40.20	Bonames AAF,	West Germany	Army Tower
40.20	Cleveland-Hopkins International,	OH	Ak operations
40.20	Hersfeld AAF,	West Germany	Army A/G
40.30	Dannelly Field(Montgomery)	AL	NG operations
40.50	Ansbach AAF,	West Germany	Army Tower
40.50	Dallas NAS(Hensley Field)	TX	Army operations
40.60	Kitzinger AAF,	West Germany	Army Radar
40.80	West Bend Municipal,	WI	Army Operations
40.90	Craig Municipal(Jacksonville)	FL	NG operations
40.90	Lakefront,	LA	NG operations

NG-National Guard ANG-Air National Guard AR-Army Reserve A/G Air to Ground AAF- Army Air Field NAS-Naval Air Station MCAS Marine Corps Air Station

FREQ	NAME	LOCATION	ACTIVITY
40.90	Muir AAF,	PA	Army Ground Control
40.90	Trubull,	CT	NG operations
41.00	Akron-Canton,	OH	NG operations
41.00	Burlington International,	VT	NG operations
41.00	Linden,	NJ	NG operations
41.00	Mather AFB,	CA	NG operations
41.00	Niagra Falls,	NY	NG operations
41.00	Whiteman AFB,	MO	NG operations
41.10	Quonset State,	RI	NG operations
41.20	Bangor International,	ME	NG operations
41.20	Hood AAF(Fort Hood)	TX	Army Weather
41.30	Orlando,	FL	Army operations
41.30	Wright AAF(Ft. Stewart)	GA	Army advisory "victory"
41.50	Acadiana Regional,	LA	Army operations "cajon ops"
41.50	Boise Air Terminal,	ID	NG operations
41.50	Ft. Polk AAF,	LA	Army Tower
41.50	Fritzsche AAF(Fort Ord)	CA	Army Tower
41.50	Grey AAF(Ft. Lewis)	WA	Army Tower
41.50	Holman Field(St. Paul)	MN	AR operations
41.50	Homestead AFB,	FL	Army operations "outcast "
41.50	Laguna AAF(Yuma Proving Grounds)	AZ	Army Tower
41.50	Lawson AAF(Ft. Benning)	GA	Army Tower
41.50	Libby AAF(Ft. Huachuca)	AZ	Army Tower
41.50	Marshall AAF(Ft.		Army Tower
41.50	Michael AAF,	UT	Army Tower
41.50	Rapid City Regional,	SD	NG operations
41.50	Shelbeyville Municipal,	IN	NG operations
41.50	Sherman AAF(Ft. Leavenworth)	KS	Army operations
41.60	Hunter AAF,	GA	Army weather
41.60	Truax Field,	WI	NG operations
41.65	Felker AAF(Ft. Eustis)	VA	Army Tower
41.70	Forbes Field,	KS	NG operations
41.70	McCoy AAF,	NC	Army Tower
41.70	Laupheim,	West Germany	German Army Radar
41.75	Mackall AAF,	NC	Army Tower
41.85	Abrams Municipal,	MI	NG operations
41.80	Stockton Metropolitan,	CA	NG operations
41.80	Bradley International,	CT	NG operations "fury ops"
41.95	New River MCAS,	NC	MC Tower
41.95	Quantico MCAS,	VA	MC Tower
42.00	Buckeburg,	West Germany	German Army Tower
42.40	Niederstetten,	West Germany	German Army Tower
43.70	Lowe Army Heliport(Ft. Rucker)	AL	Army Tower
44.70	Blackstone AAF(Ft. Picket)	VA	Army Tower
46.30	Fritzlar,	West Germany	German Army Tower
46.30	Mendig,	West Germany	German Army Tower
46.30	Niederstetten,	West Germany	German Army Tower
46.60	Scott AFB,	IL	NG operations
46.65	Concord Municipal,	NH	NG operations
46.70	Jefferson City Memorial,	MO	NG operations
46.70	Paine Field(Everett)	WA	AR operations
46.80	Dallas NAS(Hensley Field)	TX	NG operations
46.90	Johnson County Industrial,	KS	Army operations
48.60	Grayling AAF,	MI	Army Radar
49.65	Holman Field(St Paul)	MN	NG operations
49.70	Bush Field(Augusta)	GA	Army operations
49.80	Bismark Municipal,	SD	NG operations
49.80	Jefferson City,	MO	NG Tower
49.80	Smyrna,	TN	NG operations
49.80	Wheeler-Sack AAF(Ft. Drum)	NY	Army Tower
49.90	Heno/Stead,	NV	NG operations "blackjack"

FREQ	NAME LOCATION	ACTIVITY
49.95	Raleigh-Durham, NC	NG operations
49.95	Rowan County, NC	NG operations
51.30	Wildflecken AAF, West Germany	Army range

Many communities rely on the use of local government frequencies for police and fire communications in order to avoid congestion and to coordinate other local government functions. One good example of this can be found in this Bergen County Municipal list. Bergen County is the county located just west of New York City. This list is however, about five years old, so there may have been some changes.

Police	Town	Fire	Police	Town	Fire
37.08	Allendale	33.86	155.37	Park Ridge	155.82
155.13	Alpine	154.16	37.08	Kameau	33.86
45.58	Bergenfield	45.08	155.61	Ridgefield	33.86
45.90	Bogota	46.54			33.88
155.73	Carlstadt	154.16	45.90	Ridgefield Park	46.54
155.61	Cliffside Park	33.86	158.73	Ridgewood	158.94
155.13	Closter	154.16	154.04	River Edge	154.16
45.58	Cresskill	45.08	155.13	River Vale	158.76
155.13	Demarest	154.16	37.10	Rochelle Park	37.10
45.58	Dumont	45.08	-----	Rockleigh	154.16
158.73	East Paterson	33.86	155.73	Rutherford	154.16
155.73	East Rutherford	154.16	37.10	Saddle Brook	37.10
155.415	Englewood	154.16	37.08	Saddle River	33.86
155.61	Edgewater	33.86	37.38	South Hackensack	154.16
155.13	Emerson	158.76	159.21	Teaneck	158.82
37.38	Englewood Cliffs	33.86	45.58	Tenafly	45.12
158.73	Fairlawn	33.86	37.38	Teterboro	-----
155.61	Fairview	33.86	37.08	Upper Saddle River	33.86
155.61	Fort Lee	154.445	37.08	Waldwick	158.94
	" " "	33.86	155.73	Wallington	154.16
158.73	Franklin Lakes	158.94	155.13	Washington Twp	158.76
45.98	Garfield	33.86	155.13	Westwood	158.76
158.73	Glen Rock	158.94	155.37	Woodcliff Lake	155.82
154.04	Hackensack	154.10	155.73	Wood-Ridge	154.16
155.13	Harrington Park	154.16	158.73	Wyckoff	158.94
155.73	Hasbrouck Heights	154.16	*****		
45.58	Haworth	45.08	- Many thanks to George Du Bois for		
155.13	Hillsdale	158.76	- his military low band information.		
158.73	Ho-ho-kus	158.94	- This has got to be the most infor-		
37.26	Leona	33.86	- mative list generally not readily		
155.73	Little Ferry	155.94	- available.		
37.10	Lodi	33.86	-		
155.73	Lyndhurst	154.16	- Hope to see you in Baltimore at the		
37.08	Mahwah	33.86	- 1979 WTPA convention at Mueshaw's		
158.73	Midland Park	158.94	- Hilltop Inn Security Blvd and I-695.		
155.37	Montvale	155.82	- See this month's feature about the		
37.38	Moonachie	154.16	- convention and make tracks to Balt-		
45.58	New Milford	154.16	-imore!!!		
155.25	North Arlington	154.085	-		
155.13	Northvale	154.16	-		
155.13	Norwood	154.16	-		
46.56	Oakland	46.56	-		
155.13	Old Tappan	158.76	-		
155.13	Oradell	154.16	-		
45.90	Palisades Park	33.86	-		
39.60	Paramus	45.44	-		

**MORE
DETAILS
ON
PAGE
SIX!**

QSL CORNER

Thomas J. Yingling, Jr.
221 Pinewood Road
Baltimore, MD 21222
Phone # 1-301-282-5643
Deadline: 10th

TV-QSL

- ON CICA 19 Toronto, P. O. Box 200, M4T 2T1. Letter, & maps from Cindy Gelbrith, Audience Relations Officer. Reply in 10 months! Yingling
- CRFT 25 Toronto, Box 500, Terminal A, 354 Jarvis St M5W 1E6. QSL card back in one week, with no signer. Yingling
- CT WWT 30 New Britain, 1422 New Britain Ave, West Hartford, CT 06110. Letter back from William A. Canora, CE in 1 week. Yingling
- IN WSJV 28 Elkhart, Box 700, 3600 Oakland Ave, 46514. Letter from Wayne Lovely, CE in 7 days. Used SASE. Langridge
- MMME 46 South Bend, 71300 Ironwood Rd, 46614. Letter, coverage map & card from Dar Monesmith, CE in 39 days. Used Sase. Langridge
- ES KTER 27 Topeka, Box 2700, 66601. Letter from Bill Keegan, CE. Eddie
- KY WLEY 32 Louisville, 1918 Mallwood Ave, 40206. Letter from Paul Kelley, CE Eddie
- WTVQ 62 Lexington, Box 8590, 40505. Letter from William F. Bratten, Jr., CE Eddie
- WLEX 18 Lexington, Box 1457, 40501. Letter from Albert W. Scheer, CE Eddie
- MD WJZ 13 Baltimore, TV Hall, 21211. Letter from V. Vannuzzi Asst, CE Schutz
- MA WWLP 22 Springfield, P. O. Box 2210, 01101. Letter from Lucy Deliso; Promotion Dept Schutz
- WXNE 25 Boston, 100 2nd Ave, Needham Heights, 02194. Letter & inter dept programming Clers from William Gregory, CE. Schutz
- WI WHRD 50 Detroit, 26955 West 11 Mile Rd, Southfield, 48034. Letter signed by David L. Simon, Program Manager. It came in station's own envelope, even though I send a SASE. Reply was in 10 days. Wolf
- WUHQ 41 Battle Creek, 5200 Dickman Rd, 49016. Letter from Steve E. Nelson, Eng. Eddie
- MO KMTC 27 Springfield, 3000 Cherry St., 65904. Letter from Dale Blankenship, CE Eddie
- KOZX 21 Springfield, M. P. O. Box 21, 65901. Letter from William F. Curry, CE Eddie
- KDMA 41 Kansas City, BMA Tower, 1 Penn Valley Park, 64108. Letter & map from Harold De Good, CE. Eddie

FM-QSL

- ON CFMU 93.3 Hamilton, Room 301, Hamilton Hall, McMaster University, L8S 4K1. Letter from Carey Gibson, CE. "...as our ERP is 50 watts, & our antenna is below the level of the Niagara escarpment, your reception of our signal is quite a feat." Sawatzky
- CJOM 89.7 Windsor, 1120 Ouellette Ave., N9A 1G9. Letter from Wally Dawhan, CE Eddie
- CKFM 99.9 Toronto, 2 St. Clair Ave, West, M4V 1L6. QSL card for all 3 stations, CFRB-AM, CKFM & CFRX shortwave with CKFM x'ed. Signed by Clive Eastwood & D. Lunley, no title, reply in 2 weeks. Yingling
- CFLY 98.3 Kingston. Letter, dial card & coverage-map in 1 week from C. J. Birmingham, VP. Says this is most distant fm report (for CFLY or the former CKLC-FM), previous best being Indiana. Wood
- CME2 106.1 Ottawa. (tx: Camp Fortune, PQ) letter, folder, rate card, coverage maps, etc, from Chuck Azzarello, Station Manager. Says he often listen to fm station on the CN Tower at night & suggests I look for them (thus misunderstanding the difference between my Es reception & his tropo. Reply in one week. Wood

Reporters this are Rob Langridge, Richard Eddie, Eric Schutz, Wolf, Sawatzky, Yingling - ed, and a new reporter Richard E. Wood, Ph.D., thanks for the report, I used it. In fact I need all the new reporters as possible. I'm almost out of tv qsl's and just a good handful of fm reports waiting to get typed. I hope the dx season isn't that bad that no new qsls. I hope to see as many of my reporters at the '79' convention in Baltimore in August as possible.

SEE YOU IN BALTIMORE!



**TOUGH
TO BEAT!**

WORLDWIDE TV-FM DX ASSOCIATION

Post Office Box 202 Whiting, Indiana 46394 U.S.A.

Established 1967

SERVING THE VHF UHF DX ENTHUSIAST



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